EXHIBIT 30

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Page 1
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                    IN THE UNITED STATES DISTRICT COURT
                      FOR THE DISTRICT OF NEW JERSEY
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           IN RE JOHNSON & JOHNSON
 5
           TALCUM POWDER PRODUCTS
                                          ) MDL NO.
           MARKETING, SALES PRACTICES AND)16-2738 MAS RLS
           PRODUCTS LIABILITY LITIGATION )
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13
                DEPOSITION OF MICHELE L. COTE, PH.D., M.P.H.
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17
                  The deposition upon oral examination of
           MICHELE L. COTE, PH.D., M.P.H., a witness produced
18
19
           and sworn before Wendi Kramer Sulkoske, Notary Public
20
           in and for the County of Boone, State of Indiana,
21
           taken on behalf of the Defendant at Faegre Drinker
22
           Biddle & Reath, 300 North Meridian Street, Suite
23
           2500, Indianapolis, Marion County, Indiana on March
24
           21, 2024, pursuant to the Applicable Rules of
25
           Procedure.
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4	Michelle A. Parfitt Patrick Lyons (Via Zoom)	4	Exhibit 17 The Effect of Talc Particles on 204
4	Patrick Lyons (Via Zoom) 1825 K Street, N.W.		Phagocytes in Co-Culture With Ovarian
5	Washington, D.C. 20006	5	Cancer
	mparfitt@ashcraftlaw.com	6	Exhibit 18 Molecular Basis Supporting the 205
6	plyons@ashcraftlaw.com		Association of Talcum Powder Use With
7	BEASLEY ALLEN	7	Increased Risk of Ovarian Cancer
8	P. Leigh O'Dell	8	Exhibit 19 Screening Assessment April 2021 228
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11	316 South Baylen Street	11	and Ovarian Cancer: The African-American
12	Pensacola, Florida 32502	12	Cancer Epidemiology Study
13	ctisi@levinlaw.com ANAPOL WEISS	13	Exhibit 22 Use of Powder in the Genital Area and 259
13	Tracy A. Finken (Via Zoom)	13	Ovarian Cancer Risk Examining the
14	18th Street, suite 1600	14	Evidence
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15	tfinken@anapolweiss.com	16	Exhibit 24 Talc, Body Powder, and Ovarian Cancer: 281
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10	Scott A. James		Exhibit 25 Association Between the Frequent Use of 294
19	600 Travis Street, Suite 3400	18	Perineal Talcum Powder Products and
	Houston, Texas 77002		Ovarian Cancer: A Systematic Review
20	sjames@shb.com	19	and Meta-analysis
21	EXAMINATION INDEX	20	Exhibit 26 The Environment and Disease: 309
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1	EXHIBIT INDEX	1	MICHELE L. COTE, PH.D., M.P.H.
2			
3	Exhibit Description Page	2	the witness herein, having been first duly sworn to
4	Exhibit 1 Notice of Deposition 8	3	tell the truth, the whole truth, and nothing but the
5	Exhibit 2 Dr. Cote Expert Report 9	4	truth, was examined and testified as follows:
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7	Exhibit 4 Association of Inflammation-Related 59	5	EXAMINATION,
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10	Exhibit 6 Ovarian Cancer Facts and Prevention 79	8	A Good morning.
11	Exhibit 7 Karmanos Hope, The Truth About Talc 83	9	Q I'm Scott James. I'm counsel for the defendant.
12	Exhibit 8 AACR Ovarian Cancer 87	10	I will take your deposition today.
13	Exhibit 9 Ovarian, Fallopian Tube, and Primary 91		
	Peritoneal Cancers Prevention - Health	11	Can you state your full name for the record?
14	Professional Version	12	A Michele Lynn Cote.
			Q Where are you employed?
15	Exhibit 10 WCRFI Ovarian Cancer 99		CL VV DECE ATE VOIL EMPLOYED!
	Exhibit 11 Facts About Talc 155	13	
16		13	A Indiana University, Indianapolis.
16 17	Exhibit 11 Facts About Talc 155 Exhibit 12 BJC Analgesic Medication Use and Risk 165 of Epithelial Ovarian Cancer in African	14	A Indiana University, Indianapolis.
16 17	Exhibit 11 Facts About Talc 155 Exhibit 12 BJC Analgesic Medication Use and Risk 165 of Epithelial Ovarian Cancer in African Women	14 15	A Indiana University, Indianapolis.Q Do you have any other current employers?
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16 17 18	Exhibit 11 Facts About Talc 155 Exhibit 12 BJC Analgesic Medication Use and Risk 165 of Epithelial Ovarian Cancer in African Women	14 15	A Indiana University, Indianapolis.Q Do you have any other current employers?
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1 A No. 2 Q Have you disclosed to your employer that you are 3 doing iltigation work? 4 A Yes. 5 Q Do they have policies that require such a 6 disclosure? 6 A Yes. 7 Q Have you beep disclosed that require such a 6 disclosure? 7 A No. 7 Q Have you ever done any prior work as an expert in 8 A Yes. 7 Q Have you ever done any prior work as an expert in 9 A Yes. 10 Q You understand today that we are here to take your 2 deposition in the tale MDL and also in the tale 13 New Jersey state court litigation? 14 A Yes. 15 Q Have you been disclosed as an expert in any other 14 A Yes. 15 Q Have you been disclosed as an expert in any other 14 A Yes. 15 Q Have you been disclosed as an expert in any other 14 A No. 15 Q Okay. And, Dr. Cote, have you seen this document 16 before? 17 A Yes, I have. 18 Q Turn to Page 3. 19 A Yes. 19 Q When were you first contacted you? 21 January 2023. 22 Q Okay. Who first contacted you? 23 A Ms. Parfit. 23 Do you see there is a Schedule A? 21 A Ido. 24 A Yes. 25 Q Then below that it says Documents To Be Produced. 23 Do you see there is a Schedule A? 24 A Yes. 25 Q Then below that it says Documents To Be Produced. 24 A Yes. 25 Q Did you have any prior work or relationship with plaintiff's counsel? 24 A Yes. 25 Q Did you have any prior work or relationship with plaintiff's counsel? 24 A Yes. 25 Q Did you first deposition? 26 Q Did you have any prior work or relationship with plaintiff's counsel? 27 A No. 28 Q Did you first deposition? 28 A Yes. 29 Q If you first deposition? 29 Q Do you see there is a Schedule A? 21 Do you understand that? 22 A Yes, 1 See that. 23 Q Did you from any of the produced to me? 24 A Yes. 25 Q Did you from any of the produced to me? 25 Q Did you from any of the produced to me? 26 Q Did you from any of the produced to me? 27 A No. 28 Q Did you from any of the produced to me? 28 Q Did you from any of the produced to me? 29 Q Did you from any of the pr		Page 6	Page 8
3 doing litigation work? 4 A Yes. 5 Q Do they have policies that require such a 6 disclosure? 6 A Yes. 7 A No. 8 Q Do they know the subject matter of your litigation 9 work? 10 A Yes. 11 Q You understand today that we are here to take your 12 deposition in the tale MDL and also in the tale: 13 New Bresey state court litigation? 14 A Yes. 15 Q Have you been disclosed as an expert in any other 16 tale litigation? 17 A No. 8 Q When were you first contacted about serving as an 19 expert in the tale litigation? 10 A Yes. 11 Q In you understand today that we are here to take your 12 deposition in the tale MDL and also in the tale: 13 New Bresey state court litigation? 14 A No. 15 Q Have you been disclosed as an expert in any other 16 tale litigation? 16 before? 17 A No. 18 Q When were you first contacted about serving as an 19 expert in the tale litigation? 19 A Yes. 20 A 1 Delive it was January of Itast year. So 21 January 2023. 21 Q Okay. Who first contacted you? 22 Q Then below that it says Documents To Be Produced. 23 Doyou see there: 24 A Yes. 25 Q There are several pages with document requests. 26 Q Did you have any prior work or relationship with 27 plaintiff's counsel? 28 A Yes. 29 Q Is this your first deposition? 20 A Yes. 21 Q In you lifetime? 21 A Yes. 21 Q In you lifetime? 22 A Yes. 23 Q Did you review this list of document requests? 24 A Yes. 25 Q Did you review this list of document requests? 26 Q Did you have any prior work or relationship with 27 plaintiff's counsel? 28 A Yes. 29 Q Is this your first deposition? 29 Q Is this your first deposition? 30 Q Have you ever given any type of deposition or 31 you have a working copy of the expert report. 31 A Pass. 32 Q In you have a working copy of the expert report. 33 Q Have you be en disclosed as an expert in the case? 34 Q In you have a working copy of the expert report. 35 Q Did you have a working copy of the expert report. 36 Q To you have a working copy of the expert report. 37 A No. 38 Q In were the received this. 39 Q In we were produced to me? 40 Po	1		
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4 Yes. 5 Q Do they have policies that require such a disclosure? 6 A No. 8 Q Do they know the subject matter of your litigation work? 7 A No. 9 Q Do they know the subject matter of your litigation work? 10 A Yes. 11 Q You understand today that we are here to take your lead position in the tale MDL and also in the tale: 13 New Jersey state court litigation? 14 A Yes. 15 Q Have you been disclosed as an expert in any other tale litigation? 16 tale litigation? 17 A No. 18 Q When were you first contacted about serving as an expert in the tale litigation? 18 Q When were you first contacted about serving as an expert in the tale litigation? 19 A Yes. 20 A I believe it was January of last year. So 21 January 2023. 21 January 2023. 22 Q Okay. Who first contacted you? 23 A Ms. Parfitt. 24 Q When did you agree to serve as an expert in the tale litigation? 24 Q When did you agree to serve as an expert in the tale litigation? 25 Q Okay. Who first contacted you? 26 A Is was at some point I think later that summer or may he even early, like, early September. Pairly recently. 4 Q And we are discussing 2023 still? 5 Q Is wish your first deposition? 5 Q Did you have any prior work or relationship with plaintiff's counsel? 6 Q Did you have any prior work or relationship with plaintiff's counsel? 7 A Yes. 7 Q In your lifetime? 8 A No. 9 Q Is this your first deposition? 9 Q Is will sak you questions. I ask that you answer me verbally rather than nods or shakes. 16 Q Today I will ask you questions. I ask that you answer me verbally rather than nods or shakes. 18 A I will do my best, yes. 19 Q If you are tired or need a break, let me know. 20 To happy to break at your convenience. 21 A Yes. 22 Q It will be a full day. I understand we will take 23 a lunch break as well. 23 A No. Have you ever given any type of deposition or sworm testimony in any type of proceeding before? 14 A Yes. 15 Q Inware freport. 16 A Ido. 17 A No. Have you ever given any type of deposition or sworm testimony in any type of proceeding before? 18 A Yes. 19 Q If	3		3 Q You are providing your testimony today just as if
5 Q Do they have policies that require such a 6 disclosure? 7 A No. 8 Q Do they know the subject matter of your litigation 9 work? 10 A Yes. 11 Q You understand today that we are here to take your 12 deposition in the talc MDL and also in the talc 13 New Jersey state court litigation? 14 A Yes. 15 Q Have you been disclosed as an expert in any other 16 talc litigation? 16 talc litigation? 17 A No. 8 Q When were you first contacted about serving as an expert in the talc litigation? 18 Q When were you first contacted about serving as an expert in the talc litigation? 19 A No. 19 Q Nay. Who first contacted you? 20 A I believe it was January of last year. So 21 January 2023. 21 Q Okay. Who first contacted you? 22 Q Okay. Who first contacted you? 23 A Ms. Parfitt. 24 Q When did you agree to serve as an expert in the talc litigation? 25 Q There are several pages with document requests. 26 Q Did you have any prior work or relationship with plaintiff's counsel? 27 A Yes. 38 A No. 49 Q In you lifetime? 40 Q In you lifetime? 40 Q In you review this list of document requests? 41 A Idd at the time I received this. 42 A Yes. 43 Q Inderstand that? 44 Yes, I see that. 45 Q Did you have any prior work or relationship with plaintiff's counsel? 46 Q Did you have any prior work or relationship with plaintiff's counsel? 47 A No. 48 A No. 49 Q In were were you first deposition? 40 Q In you lifetime? 41 A Okay. 41 A Okay. 41 A Okay. 42 Q Alme are discussing 2023 still? 43 A Yes. 44 A Yes. 45 Q Did you have any prior work or relationship with plaintiff's counsel? 46 Q Did you have any prior work or relationship with plaintiff's counsel? 47 A Yes. 48 A No. 49 Q In were were deally alter than node or shakes. 41 Will do my best, yes. 41 Q In you are tired or need a break, let me know. 41 In the produced a set of invoices in this case? 42 Q If you have a working copy of the expert report as Exhibit Number 2. 43 A Yes. 44 A Yes. 45 A Yes. 46 Q If you have a working copy of the expert report as Exhibit Number 2. 46 Yes. 47 Yes. 48 A Yes. 49	4		
6 disclosure? 7 A No. 8 Q Do they know the subject matter of your litigation work? 10 A Yes. 11 Q You understand today that we are here to take your deposition in the tale MDL and also in the tale deposition in the tale MDL and also in the tale A Yes. 14 A Yes. 15 Q Have you been disclosed as an expert in any other tale litigation? 16 Q When were you first contacted about serving as an expert in the lale litigation? 17 A No. 18 Q When were you first contacted about serving as an expert in the lale litigation? 19 A Yes. 10 Q When were you first contacted about serving as an expert in the lale litigation? 10 A Yes. 11 Q I was at some point I think later that summer or maybe even early, like, early September. Fairly plaintiffs counsel? 11 A It was at some point I think later that summer or maybe even early, like, early September. Fairly plaintiffs counsel? 10 A Yes. 11 Q In your lifetime? 12 A Yes. 13 Q Have you ever done any prior work as an expert in any other tale litigation? 14 A No. 15 Q Have you useen this dot you of the tale your deposition or the tale litigation? 16 A Yes. 17 A No. 18 Q When were you first contacted about serving as an expert in the lale litigation? 18 Q U A Men did you agree to serve as an expert in the tale litigation? 19 A Yes. 20 Q I was a to some point I think later that summer or maybe even early, like, early September. Fairly plaintiffs counsel? 20 I was at some point I think later that summer or maybe even early, like, early September. Fairly plaintiffs counsel? 21 A Yes. 22 Q I will ask your first deposition? 23 A No. 24 A Yes. 25 Q Did you understand that? 26 A Yes. 27 A No. 28 Q I understand that in this case you have produced an expert report. 29 A Yes. 20 Q In you review this list of document requests? 30 Q I did the time I received this. 31 Q I was a was a was an expert in the late litigation? 32 A Yes. 33 Q I was a was a was a expert in the late litigation? 34 A Yes. 35 Q Did you understand that? 36 Q Did you duale and that? 37 A No. 38 Q I understand that in this case you h	5	Q Do they have policies that require such a	
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12 deposition in the talc MDL and also in the talc 12 Q Fm going to hand you Exhibit Number 1, a copy of the deposition notice. Okay?	10	A Yes.	10 (EXHIBIT NUMBER 1 WAS MARKED FOR
13 New Jersey state court litigation? 14 A Yes. 15 Q Abay. And, Dr. Cote, have you seen this document before? 16 talc litigation? 17 A No. 18 Q When were you first contacted about serving as an expert in the talc litigation? 19 expert in the talc litigation? 20 A I believe it was January of last year. So 21 January 2023. 22 Q Okay. Who first contacted you? 23 A Ms. Parfitt. 24 Q When did you agree to serve as an expert in the talc litigation? 25 talc litigation? 26 A It was at some point I think later that summer or maybe even early, like, early September. Fairly receively. 4 Q And we are discussing 2023 still? 5 A Yes. 4 Q And we are discussing 2023 still? 5 A Yes. 6 Q Did you have any prior work or relationship with plaintiff's counsel? 8 A No. 9 Q Is this your first deposition? 10 A Yes. 11 Q In your lifetime? 12 A Yes. 13 Do you understand that? 14 Do you understand that? 15 Q Did you bring any documents with you today that he have not yet been produced to me? 16 before? 17 A No. 18 Q Turn to Page 3. 19 A Yes. 20 Do you see there is a Schedule A? 21 A I do. 22 Q Then below that it says Documents To Be Produced. 23 Do you understand that? 24 A Yes. 25 Q There are several pages with document requests? 26 Q Did you understand that? 27 A Yes, I see that. 28 Q Did you bring any documents with you today that he have not yet been produced to me? 29 A Yes. 20 Did you bring any documents with you today that he have not yet been produced to me? 29 A Yes. 20 Q I will mark that as Exhibit Number 2. 21 A Yes. 22 Q I will mark you ever given any type of deposition or sworn testimony in any type of proceeding before? 23 A No. 24 A Yes. 25 Q If you are trier or need a break, let me know. 26 Q I frou are tired or need a break, let me know. 27 Im happy to break at your convenience. 28 A Yes. 29 Q It will be a full day. I understand we will take a lunch break as well. 29 A Yes. 20 Q In will wark your expert report as Exhibit Number 2. 20 A Yes. 21 A Yes. 22 Q I was a proventured a set of invoices in this case? 23 A No. 24 A Y	11	Q You understand today that we are here to take your	11 IDENTIFICATION.)
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22 Q Okay. Who first contacted you? 23 A Ms. Parfitt. 24 Q When did you agree to serve as an expert in the 25 talc litigation? 26 Page 7 1 A It was at some point I think later that summer or 2 maybe even early, like, early September. Fairly 3 recently. 4 Q And we are discussing 2023 still? 5 A Yes. 6 Q Did you have any prior work or relationship with 7 plaintiff's counsel? 8 A No. 9 Q Is this your first deposition? 10 A Yes. 110 Q In your lifetime? 11 Q In your lifetime? 12 A Yes. 13 Q Have you ever given any type of deposition or 14 sworn testimony in any type of proceeding before? 15 A No. 16 Q Today I will ask you questions. I ask that you 17 answer me verbally rather than nods or shakes. 18 A I will do my best, yes. 19 Q If you are tired or need a break, let me know. 10 A Yes. 11 M Yes. 12 Q I will mark your expert report as 13 A Yes. 14 A Yes. 15 A Yes. 16 Q Today I will ask you questions. I ask that you 16 A I will do my best, yes. 17 Q I have clean copies if you would like one. 18 A I will do my best, yes. 19 Q If you are tired or need a break, let me know. 20 I'm happy to break at your convenience. 21 A Yes. 22 Q It will be a full day. I understand we will take 23 a lunch break as well. 24 A Yes. 25 Q Thene are several pages with document requests. 26 The page 7 Page 9 There are several pages with document requests. 27 A Yes. 28 A Yes. 29 Do you understand that? 29 A Yes, I see that. 30 Q Did you review this list of document requests? 4 A I did at the time I received this. 6 A I did at the time I received this. 7 A No. 8 Q I inderstand that in this case you have produced an expert report. 16 A Yes. 17 Q I will mark that as Exhibit Number 2. 18 A I will do my best, yes. 19 Q I fyou are tired or need a break, let me know. 20 I'm happy to break at your convenience. 21 A Yes. 22 Q It will be a full day. I understand we will take 23 a lunch break as well. 24 Q You have produced a set of invoices in this case?	20	A I believe it was January of last year. So	20 Q Do you see there is a Schedule A?
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24 A Yes. 24 Q You have produced a set of invoices in this case?			1
	1		
25 Q You understand today you are under oath, is that 25 A I believe Michelle has those.			
	25	v ou understand today you are under oath, is that	23 A I believe Michelle has those.

	Page 10		Page 12
1	Q I will mark the collection of invoices as Exhibit	1	Q Let's start with
2	Number 3.	2	A Let's look and see.
3	(EXHIBIT NUMBER 3 WAS MARKED FOR	3	Q There should be one that is multiple pages.
4	IDENTIFICATION.)	4	A So the top one dated 1/8/2024?
5	Q Are there any other responsive materials to the	5	MS. PARFITT: 11/2/23.
6	Schedule A that you brought with you today other	6	Q Do you have one dated 11/2?
7	than the report and the invoices?	7	A Yes. One of these is the incorrect cover sheet
8	A No.	8	perhaps.
9	Q I see that you have in front of you a fairly	9	Q Okay. Focusing on the one that has a cover sheet
10	substantial binder, correct?	10	of 11/2, do you see that?
11	A Three of them, yes.	11	A Yes, I do.
12	Q Fair enough. Can you in a very brief fashion	12	•
13	explain to me what are in those binders?	13	has work for March, September, and October,
14	A My expert report. My C.V. Then the literature	14	correct?
15	that was all cited in my expert report.	15	A Right.
16	Q Okay. Do the binders contain the literature cited	16	1
17	and also the additional materials considered, or	17	cover sheet dated 1/8/2024.
18	just the literature cited?	18	MS. PARFITT: There are two marked
19	A Just the literature cited.	19	1/8/2024. They are different invoices.
20	MS. PARFITT: For the record, we provided	20	Q One of those invoices is for work in
21	counsel with a drop box of reference materials.	21	November 2023, correct?
22	She should have access to that.		A Yes. That is correct.
23	MR. JAMES: Understood.	23	Q And then the second invoice that has a cover shee
24	Q It looks to me like your binders, that at least	24	of 1/8 is for work in December of 2023, is that
25	some of the materials may be work copies, is that	25	correct?
1	Page 11	1	Page 13
1	fair?		A Yes, that is correct.
2	fair? A Yes.	2	A Yes, that is correct. Q Okay. Are these all of the invoices that you
2	fair? A Yes. Q You have marked up, I see, the report in front of	2	A Yes, that is correct.Q Okay. Are these all of the invoices that you have invoiced to date for your work in this
2 3 4	fair? A Yes. Q You have marked up, I see, the report in front of you, correct?	2 3 4	A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation?
2 3 4 5	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure.	2 3 4 5	A Yes, that is correct.Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation?A I believe so.
2 3 4 5 6	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure. Q Do any of the materials, the report that you have	2 3 4 5 6	 A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation? A I believe so. Q I have calculated the invoices that you have
2 3 4 5 6 7	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure. Q Do any of the materials, the report that you have in front of you in the binders, do they have	2 3 4 5 6 7	 A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation? A I believe so. Q I have calculated the invoices that you have produced to us.
2 3 4 5 6 7 8	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure. Q Do any of the materials, the report that you have in front of you in the binders, do they have substantive notes that include additional	2 3 4 5 6 7 8	 A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation? A I believe so. Q I have calculated the invoices that you have produced to us. Thus far the invoices that you have produced
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2 3 4 5 6 7 8 9 10	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure. Q Do any of the materials, the report that you have in front of you in the binders, do they have substantive notes that include additional opinions? A No.	2 3 4 5 6 7 8 9	A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation? A I believe so. Q I have calculated the invoices that you have produced to us. Thus far the invoices that you have produced to us reflect that you have invoiced for 116.5 hours of work in this litigation.
2 3 4 5 6 7 8 9 10 11	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure. Q Do any of the materials, the report that you have in front of you in the binders, do they have substantive notes that include additional opinions? A No. Q Is it all just highlighting?	2 3 4 5 6 7 8 9 10 11	A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation? A I believe so. Q I have calculated the invoices that you have produced to us. Thus far the invoices that you have produced to us reflect that you have invoiced for 116.5 hours of work in this litigation. Does that sound accurate?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	fair? A Yes. Q You have marked up, I see, the report in front of you, correct? A Sure. Q Do any of the materials, the report that you have in front of you in the binders, do they have substantive notes that include additional opinions? A No. Q Is it all just highlighting? A Tabs and highlighting, yes. Q Let's look briefly at your invoices. Do you have a copy of those in front of you? A I do not. Q I have a copy. A Okay. Thank you. Q You have produced to us in this case three invoices. You have produced an invoice to us for work for March, September, and October 2023. Do you see that first invoice?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Yes, that is correct. Q Okay. Are these all of the invoices that you have invoiced to date for your work in this litigation? A I believe so. Q I have calculated the invoices that you have produced to us. Thus far the invoices that you have produced to us reflect that you have invoiced for 116.5 hours of work in this litigation. Does that sound accurate? A Yes, that sounds correct. Q You have invoiced for us fees totaling \$46,600. Does that sound correct? A That sounds correct, yes. Q Have you done work since your December invoices in this litigation? A Yes. I have been preparing for this. Q Do you have an approximate or estimate of how much time you have spent since your last invoice working in this litigation?

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Page 14 1 MR. JAMES: Counsel, we would request the		Page 16 Q Over the course of your work in this litigation
2 you produce the supplemental invoice when it's	2	have you had meetings with anyone other than
3 available.	3	Ms. Parfitt and Ms. O'Dell?
4 MS. PARFITT: Of course.	4	A Yes. Chris has been on some of those calls.
5 Q I see in the top invoice the cover sheet of 11/2.	5	Patrick, who is on the phone today, has been
6 Can you open that one for me, the 11/2 cover	6	on some of those calls. I really think that is it
7 sheet?	7	that I can recall.
8 A Yes.	8	Q Just for purposes of the record, you are referring
9 Q I see that the first entry that is invoiced is	9	to Mr. Tisi and Mr. Lyons, correct?
from March 15, do you see that?	10	
11 A Yes, I do.	11	Q Is the time that you have spent since December,
12 Q That says Introductory Meeting.	12	has that been dedicated to preparing for today's
Do you see that?	13	deposition?
14 A Uh-huh.	14	
15 Q Is that yes?	15	Q Have you done any additional review of new
16 A Yes. I'm sorry.	16	materials since the December time period?
17 Q No worries. Is that the first call that you had with counsel about working on this litigation?	17 18	A Some things as they have come in, yes.Q I see your expert report is dated November 15,
19 A I actually believe I spoke briefly with Michelle	19	correct?
20 sometime I received an email, like, the end of	20	
21 January. We spoke briefly over the phone.	21	Q Are there any additional materials that you are
Then we have I thought about it some. We	22	relying on for the opinions that you intend to
23 set up a call for March. So, yes.	23	offer in this litigation that are not captured in
24 Q And then I see that on 3/23 you invoiced for 120		the report?
25 minutes of first literature review.	25	•
Page 15		Page 17
1 Do you see that?	1	Q When you say not for the overall opinion, what do
2 A Yes.	2	you mean?
3 Q And then on 3/27 you have invoiced for a review		
4 history call, is that correct?	4	that time or additional announcements that I've
5 A Yes, that is correct.	5	considered, but they are not, they didn't inform
6 Q At the time on 3/27 had you reached the opinion		or change or alter my final opinions in the
7 that talc as a perineal talc use is a general	7	report.
8 cause of ovarian cancer?	8	Q Okay. Where would I look to find out what
9 A I had not, no.	9	additional materials have informed your overall
10 Q When did you reach that opinion?11 A At some point later this fall during my broader	10	opinions since the report? A I don't know if it has informed my overall
review of multiple lines of evidence. At this	12	opinion. It has just been out there in the media
point in March I had really just focused on the	13	that the EPA banned the import of asbestos. You
14 epidemiological literature.	14	_
15 I felt confident that there would be enough	1 - '	=
there for me to come to an opinion. So I agreed	15	That was, you know, broadly in the media as
1	15 16	That was, you know, broadly in the media as well as, you know, on the internet.
17 to kind of take on this work.		well as, you know, on the internet.
	16	· · · · · · · · · · · · · · · · · · ·
	16 17	well as, you know, on the internet. Q Any other examples that come to mind as you sit
18 Q Okay. That first call was with Ms. Parfitt,	16 17 18	well as, you know, on the internet.Q Any other examples that come to mind as you sit here today?
18 Q Okay. That first call was with Ms. Parfitt, 19 correct?	16 17 18 19	well as, you know, on the internet.Q Any other examples that come to mind as you sit here today?A That is the most recent one.
18 Q Okay. That first call was with Ms. Parfitt, 19 correct? 20 A I believe so. I believe Leigh may have been on	16 17 18 19 20	well as, you know, on the internet.Q Any other examples that come to mind as you sit here today?A That is the most recent one.Q Is there any scientific literature that predated
18 Q Okay. That first call was with Ms. Parfitt, 19 correct? 20 A I believe so. I believe Leigh may have been on 21 that call as well. 22 Q Ms. O'Dell? 23 A Yes, Ms. O'Dell.	16 17 18 19 20 21	 well as, you know, on the internet. Q Any other examples that come to mind as you sit here today? A That is the most recent one. Q Is there any scientific literature that predated your November 15 report that you have since reviewed that you intend to rely on for the opinions in this case?
 18 Q Okay. That first call was with Ms. Parfitt, 19 correct? 20 A I believe so. I believe Leigh may have been on 21 that call as well. 22 Q Ms. O'Dell? 	16 17 18 19 20 21 22	 well as, you know, on the internet. Q Any other examples that come to mind as you sit here today? A That is the most recent one. Q Is there any scientific literature that predated your November 15 report that you have since reviewed that you intend to rely on for the

	Page 18		Page 20
1	A No.	1	Trisha Moorman and Anne McTiernan.
2	Q I understand you are charging \$400 an hour for	2	Q Have you reviewed any expert reports from any
3	your time in this litigation?	3	epidemiologists that are retained by the
4	A Yes.	4	defendants in this litigation?
5	Q Is that the rate for all of the activity that you	5	A No, I don't believe so.
6	have done in this litigation whether it be review	6	Q Have you reviewed any expert reports for any
7	or testimony?	7	experts retained by the defendants in this
8	A Yes.	8	litigation?
9	Q Do you know any experts that the plaintiffs have	9	A No.
10	retained to work on this litigation?	10	MS. PARFITT: Objection.
11	A Yes. I know Trish Moorman. Trisha Moorman.	11	Q Have you reviewed any recent reports, anything
12	Q Have you discussed this litigation with	12	more recent from plaintiff expert retained
13	Dr. Moorman?	13	epidemiologists other than the McTiernan and
14	A No.	14	Moorman 2017 reports that you referred to?
15	Q How are you aware that she is an expert for the	15	A I did briefly review Dr. Moorman's deposition from
16	plaintiffs in this litigation?	16	a couple weeks ago.
17	A When Michelle contacted me, she, I asked how she	17	Q You are referring to her deposition?
18	got my name and it was through Dr. Moorman.	18	A Yes.
19	Q Do you know Dr. Moorman professionally or	19	Q Have you reviewed any other deposition testimony
20	personally or both?	20	of plaintiffs' retained experts in this
21	A Professionally.	21	litigation?
22	Q Have you co-authored papers with Dr. Moorman?	22	A No.
23	A Yes, we have.	23	Q Why did you review Dr. Moorman's deposition
24	Q Was Dr. Moorman on the Schildkraut 2016 paper?	24	testimony?
25	A She was indeed. She was the last author.	25	A As I stated, I have never done this before. I
	Page 19		Page 21
1	Page 19 Q Do you know anything else about why Dr. Moorman	1	Page 21 just kind of wanted to get an idea of how the day
1 2	Q Do you know anything else about why Dr. Moorman recommended you?	1 2	_
	Q Do you know anything else about why Dr. Moorman	2 3	just kind of wanted to get an idea of how the day would go. Q Do you know Ghassan Saed, S-A-E-D?
2	 Q Do you know anything else about why Dr. Moorman recommended you? MS. PARFITT: Objection. A No. 	2 3 4	just kind of wanted to get an idea of how the day would go. Q Do you know Ghassan Saed, S-A-E-D? A No, I do not.
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2 3 4 5 6	 Q Do you know anything else about why Dr. Moorman recommended you? MS. PARFITT: Objection. A No. Q Do you know any other experts that are working for the plaintiffs in the talc litigation besides 	2 3 4 5 6	just kind of wanted to get an idea of how the day would go. Q Do you know Ghassan Saed, S-A-E-D? A No, I do not. Q Do you know Nicole Fletcher? A No.
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	P 22	D 24
1	Page 22 Fletcher?	Page 24 1 A At some point in time I'm open to reviewing
2	A No.	2 literature from anywhere.
3	Q Did you ever collaborate with any of them on any	-
4	work?	4 publications contain serious scientific concerns
5	A No.	5 about the validity of those studies?
6	Q Did you ever review any of their studies or	6 MS. PARFITT: Objection.
7	literature before let me start over.	7 A No.
8	Did you ever review any of their literature	8 Q Do you know how many journals have rejected the
9	or studies before being retained in this	9 articles published by Saed, Fletcher, or Harper?
10	litigation?	10 MS. PARFITT: Objection.
11	A No.	11 A No.
12	Q Do you understand that Dr. Saed is a paid	12 Q Would you like to know that?
13	plaintiffs' expert in this litigation?	13 MS. PARFITT: Objection.
14	A I do.	14 A No.
15	Q Do you know how his studies were funded?	15 Q And would peer reviewed comments on those
	A I do not.	16 publications impact or inform your opinions in
17	Q When I refer to his studies, I'm referring to any	17 this litigation?
18	studies on which he is a co-author.	18 MS. PARFITT: Objection.
19	Do you understand that?	19 A No.
20	A I do understand that.	20 Q Why not?
21	Q And do you understand he has co-authored with	21 A During the review process, speaking as somebody
22	Fletcher?	who was co-authored over 150 different papers,
23	A Yes.	when we send it to a journal, send it meaning our
24	Q Fletcher is one of the literature references in	24 final manuscript to a journal, they assign
25	your report, correct?	25 reviewers.
	Page 23	Page 25
1	A Correct.	1 Oftentimes they most of the time the
2	Q Do you know if his studies were funded by the	2 reviewers are unknown to us. We don't have an
3	plaintiffs' bar or through his work in the	3 open policy of disclosing. It is not at all
4	plaintiffs' litigation?	4 unusual to get reviewer comments back even if th
5	MS. PARFITT: Objection.	5 journal accepts.
6	A I do not know. I believe that he lists his work	6 So you have no way of really vetting who is
7	as a consultant in the talc trials as a conflict	7 reviewing your work. You have to kind of trust
8	of interest or additional information on the	8 that the editor is making an informed decision
9	manuscript.	9 that the people who are reviewing the manuscript
10	But that is the extent about how he was	10 have the appropriate scientific expertise.
11	funded that I know.	11 And that is a pretty big assumption. So I
12	Q All you know is what is disclosed in the conflict	would assume that because a journal eventually
13	of interest, correct?	published it, that the editorial board was
14	A Yes.	satisfied with the response to the reviewers'
15	Q Have you ever reviewed any peer review comments	15 comments, that if there were any glaring errors or
16	associated with any studies published by Saed,	16 issues with the scientific methodology that they
17	Fletcher, or Harper?	would have been resolved, or else the journal
18	A No.	would not have published that manuscript.
19	Q Are you aware that peer reviewed comments for	They are experts in that field. I'm not an
20	those studies have been published in this	20 expert in the type of work that they were doing.
	litigation?	21 So it would not be particularly useful for me to
21	A NT.	22 review the comments.
22	A No.	
22 23	Q Would you like to review the peer reviewed	23 Q Are you an expert in the in vitro work that Saed
22		 23 Q Are you an expert in the in vitro work that Saed 24 does? 25 A No, I'm not.

1	Page 26	1	Page 28
1	Q If those comments identified scientific flaws in	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	is there are distinct subtypes of ovarian cancer,
3	the studies would you consider the comments for that purpose?	2 3	epithelial ovarian cancer. Q Is your expert opinion that perineal talc use is
4	MS. PARFITT: Objection.	4	associated with all subtypes of EOC or only some
5	A As I stated earlier, I would assume that those	5	subtypes of EOC?
6	issues were resolved adequately in order for the	6	A As I was asked to review, it would be all subtypes
7	paper to be peer reviewed published.	7	of EOC.
8	Q Have you ever reviewed any of the litigation	8	Q And so your testimony is that perineal talc use is
9	reports authored by Dr. Saed in this talc	9	associated with high grade serous, low grade
10	litigation?	10	serous, endometroid, clear cell, mucinous, and
11	A No, I've not.	11	borderline ovarian cancer?
12	Q Do you recognize that epithelial ovarian cancer	12	A Yes, I would. There's varying strength of
13	includes multiple subtypes?	13	evidence, but I only considered it as a whole.
14	A I do, yes.	14	And given that high grade serous is the most
15	Q Do you agree that the "Histologic subtypes are	15	common form of EOC, most of the findings are
16	differentiated based on the cell origin, molecular	16	driven by the subtype.
17	alterations, and clinical behavior." Is that	17	Q Did you undertake a histopathology specific
18	Correct?	18	analysis of the subtypes and the associations
19	A Generally speaking, yes.	19	between talc and ovarian cancer?
20	Q I believe I was quoting from your report.	20	A No, I did not.
21	A Yes.	21	Q Is it conceivable to you that an agent like
22	Q For example, in your report you note that	22	perineal talc can cause the diverse subtypes of
23	endometroid and clear cell tumors can arise from	23	epithelial ovarian cancer?
24	endometriosis, correct?	24	A I guess I need clarification of that question.
25	A Yes, that is in my report.	25	Are you talking about the differentiations
	Page 27		Page 29
1	$$\operatorname{\textit{Page}}\xspace 27$$ Q $$ You also note in your report important differences	1	Page 29 that talc could drive the differentiation of these
1 2		1 2	that talc could drive the differentiation of these different subtypes?
l	Q You also note in your report important differences		that talc could drive the differentiation of these different subtypes? Q Yeah. I can try to rephrase.
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	Page 30		Page 32
1	A Again, I'm struggling with the word causation here	1	supports that. Talc has also been shown to be
2	because we are talking about is it biologically	2	potentially among users a chronic inflammatory,
3	plausible. I think that there was a good	3	can promote a chronic inflammatory state. But
4	meta-analysis, and I'm going to refer to exactly	4	they are, indeed, two distinct things.
5	which one it was, that focused on it's the most	5	Q The type of inflammation you are referring to with
6	recent one. Phung from 2022.	6	endometriosis is totally different than the type
7	And that was kind of the point of their	7	of inflammation that talc causes, correct?
8	meta-analysis, was to stratify by women who had	8	MS. PARFITT: Object to form.
9	reported endometriosis and those who reported no	9	A That I don't know. I didn't study that question
10	endometriosis and they found evidence that talc	10	in particular. What are the different types of
11	was associated with both groups of women.	11	immune cells involved in each, that I don't know.
12	And so, you know, causal, that is one paper.	12	That would be for an immunologist.
13	I am hesitating to use the word causal	13	Q Do you know if endometriosis-related inflammation
14	because I didn't look at causation specifically	14	is hormonally driven?
15	for endometriosis, related or not.	15	Are you aware of that?
16	Q You did look at plausibility as part of your	16	A I've seen some, some research that suggests that
17	Bradford Hill analysis, correct?	17	particularly after, you know, for postmenopausal
18	A Yes.	18	women, oftentimes their symptoms of endometriosis
19	Q You did talk about the different histotypes in	19	are less.
20	your report, correct?	20	So that would suggest that it is hormonally
21	A Yes.	21	driven, but that is the extent of my knowledge.
22	Q You specifically highlighted endometriosis and	22	Q Do you agree with me that the type of inflammation
23	endometroid ovarian cancer in your report,	23	or biological reaction associated with
24	correct?	24	endometriosis is dramatically different than what
25	MS. PARFITT: Objection.	25	you are alleging happens with the talc, is that
	Page 31		Page 33
1	1 2 2 2	1	correct?
2	talked about them because they are in the	2	MS. PARFITT: Objection. Form.
3	literature. And, you know, as I have noted in	3	MS. FNKEN: Objection.
4	this meta-analysis by Phung, that has been, the endometriosis association has been studied	4	A I guess I would first ask what does dramatically
5 6		5	different mean?
7	previously. And so it was apparent in the literature.	6 7	Q What does dramatically different mean to you? Like, widely different? A big difference?
8		8	You can use whatever term you want.
9	endometroid ovarian cancer from an epidemiologic		MS. PARFITT: Object to the question.
10	perspective. You also talked about it from a	10	You may answer.
11	plausibility perspective and a mechanism	11	A In my mind there are multiple pathways that get to
112	nerspective correct?	12	the end point of inflammation and endometriosis
12	perspective, correct? MS_PARFITT: Objection	12 13	the end point of inflammation and endometriosis
13	MS. PARFITT: Objection.	13	may be one. Talc may be one. Chronic, you know,
13 14	MS. PARFITT: Objection. A I'm going to have to review what I said about my	13 14	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another.
13 14 15	MS. PARFITT: Objection. A I'm going to have to review what I said about my biologic plausibility before I answer that.	13 14 15	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another. Does the end state and the result of that
13 14 15 16	MS. PARFITT: Objection. A I'm going to have to review what I said about my biologic plausibility before I answer that. Q Let me ask you a different question then.	13 14 15 16	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another. Does the end state and the result of that inflammation differ? That is something that I
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13 14 15 16	MS. PARFITT: Objection. A I'm going to have to review what I said about my biologic plausibility before I answer that. Q Let me ask you a different question then. A Okay. Q Do you believe that because endometriosis can be	13 14 15 16 17	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another. Does the end state and the result of that inflammation differ? That is something that I don't know. And, again, what that would really take to best dissect your question and to answer
13 14 15 16 17 18	MS. PARFITT: Objection. A I'm going to have to review what I said about my biologic plausibility before I answer that. Q Let me ask you a different question then. A Okay. Q Do you believe that because endometriosis can be referred to as an inflammatory condition that that	13 14 15 16 17 18 19	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another. Does the end state and the result of that inflammation differ? That is something that I don't know. And, again, what that would really take to best dissect your question and to answer it would be, like, an actual study of the immune
13 14 15 16 17 18 19	MS. PARFITT: Objection. A I'm going to have to review what I said about my biologic plausibility before I answer that. Q Let me ask you a different question then. A Okay. Q Do you believe that because endometriosis can be referred to as an inflammatory condition that that somehow supports your opinion that talc can cause	13 14 15 16 17 18 19	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another. Does the end state and the result of that inflammation differ? That is something that I don't know. And, again, what that would really take to best dissect your question and to answer it would be, like, an actual study of the immune cells, you know, what is present in that tissue,
13 14 15 16 17 18 19 20	MS. PARFITT: Objection. A I'm going to have to review what I said about my biologic plausibility before I answer that. Q Let me ask you a different question then. A Okay. Q Do you believe that because endometriosis can be referred to as an inflammatory condition that that somehow supports your opinion that talc can cause ovarian cancer?	13 14 15 16 17 18 19 20	may be one. Talc may be one. Chronic, you know, obesity and body weight may be another. Does the end state and the result of that inflammation differ? That is something that I don't know. And, again, what that would really take to best dissect your question and to answer it would be, like, an actual study of the immune
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1	Page 34 endometriosis related inflammation is in any way	1	Page 36 necessarily all over the map.
2	relevant to talc associated inflammation?	2	As I said, most of them are still positive.
3	MS. PARFITT: Objection. Form.	3	I think that there is a very good discussion in
4	A Do I have the expertise to determine whether	4	Cramer, the latest literature review and
5	there's an association between	5	meta-analysis from 2016 that discusses recall bias
6	endometriosis-related or if they are equivocal?	6	and the fact that you do see, I think in
7	Q No. I'm asking more of a question about	7	particular for mucinous, you don't see as positive
8	biological mechanism which is covered in your	8	of an association. You know, the odds ratios or
9	report, correct?	9	the meta odds ratio is lower than for some of the
10	A Correct.	10	other subtypes.
11	Q Do you have the expertise to make the statements		And so he uses that as rationale, which I
12	that because there is endometriosis-related	12	believe that is evidence suggesting that recall
13	inflammation that that somehow persuades you that		bias is not a significant issue in the studies.
14	talc may be causing ovarian cancer?	14	Q There you are reverting to the point that is
15	MS. PARFITT: Objection.	15	contradicting the point that you just made a few
16	A As I mentioned	16	minutes ago.
17	MS. FNKEN: Objection.	17	There you are reverting to the point that
18	A Those are two very distinct things in my mind.	18	there is subtype differences, which might be
19	Q And by those two things, you mean talc and	19	proving that the association is relevant for some
20	endometriosis are distinct?	20	subtypes and not for others.
21	A Correct. They are two distinct things.	21	You are using that point to sort of discount
22	Q Do you believe the cohort data from the talc	22	recall bias, right?
23	ovarian cancer studies demonstrates a histologic	23	MS. PARFITT: Objection. Form. Misstates
24	specific association?	24	her testimony.
25	A That is a broad question. I would say overall I	25	A No, I'm talking about two different things. You
	Page 35		Page 37
1	don't believe any of the cohort data have	1	are asking me specifically about recall bias and
2	sufficient power to look at subtypes.	2	subtypes. And I'm saying that, you know, there's
3	Q Are you aware that the case control studies on	3	at least some documentation and some suggestion
4	talc and ovarian cancer show varying results for	4	through that Cramer 2016 paper, also I believe in
5	varying subtypes of ovarian cancer?	5	one of his earlier papers he does a similar
6	MS. PARFITT: Objection. Form.	6	analysis, his paper from 1999, but it's two
7	A There are certain studies that have been	7	different things.
8	adequately powered, and these are case controlled	8	You know, one is a pathway of the biological
9	studies, to look at different subtypes.	9	plausibility of differences by subtype. This one
10	And depending on the study population, there	10	is also talking about talc and recall bias. It's
11	has been some variation in the point estimates	11	not comparing apples to apples in my mind.
12	associated with talc.	12	Q Cramer is using the fact that in 2016 his study
13	Most of them are still positive, that there	13	does not show a mucinous association to say aha!
14	is a positive association between talc use and	14	we can tell that there is not recall bias because
15	ovarian cancer.	15	the association is histologically specific.
16	Q If the studies on subtype are all over the map on	16	That is what he is doing, correct?
17	associations with subtypes and if there is varying	17	MS. PARFITT: Objection.
18	results, doesn't that suggest to you that there's	18	Q Yes or no?
19	recall bias in play in these studies?	19	A That is one piece of evidence.
20	MS. PARFITT: Objection. Form.	20	Q But you just testified that in your mind you are
21	MS. FNKEN: Objection.	21	not offering an opinion that there are
22	MR. JAMES: And we can agree that one	22	histological differences with the association
23	objection is good for you all if you would like.	23	between talc and ovarian cancer, correct?
24	MS. PARFITT: Thank you.	24	MS. PARFITT: Objection. Misstates her
25	A I would not classify the histologic types as being	25	testimony.

	Page 38		Page 40
1	A Can you repeat that?	1	
2	Q Sure. Your opinion here today is that talc is	2	MS. PARFITT: Let her finish.
3	associated with all subtypes of ovarian cancer,	3	Q That was the question. That was the question.
4	correct?	4	We will talk about Schildkraut later today.
5	A My opinion is that talc is associated with EOC. I	5	Okay?
6	did not do individual analyses by histologic	6	A Okay.
7	subtype.	7	Q Schildkraut, in your report, you said provides
8	So looking specifically and saying it's	8	some level of evidence of recall bias, is that
9	associated with this one, it's not associated with	9	correct?
10	that one, that is not part of my expert report.	10	A Correct.
11	What, again, what Cramer, what Cramer puts	11	Q Do you believe that perineal talc use is
12	together is based on his data of over 2,000 cases	12	associated with any types of cancer other than
13	and roughly around the same number of controls.	13	epithelial ovarian cancer?
14	And that is part of the argument as to why we	14	A I did not do systematic review looking at any
15	don't think recall bias is a significant issue in	15	other kinds of, you know, cancers potentially
16	these case control studies.	16	associated with perineal talc, so I can't answer
17	Q That is an argument you are relying on?	17	that question conclusively.
18	A That is part of it. But, you know, the argument	18	Q Sitting here today have you formed the opinion
19	that I'm most comfortable with is actually from	19	that talc causes any type of cancer other than
20	the paper that I co-authored in 2016.	20	epithelial ovarian cancer? Yes or no?
21	It's the Schildkraut paper, where it's the	21	MS. PARFITT: Objection. Asked and
22	only case control study that collected these data	22	answered.
23	since the time of litigation. So all of these	23	Q Do you have an opinion today?
24	other case control studies, these almost, I don't	24	A No, I have no opinion.
25	know, thirty some studies, we collected these data	25	Q After counsel makes an objection you are permitted
	Page 39		Page 41
1	prior to, you know, the association between talc	1	to answer unless she instructs you not to answer.
2	and ovarian cancer being broadly known by the	2	A I realize. Thank you.
3	public. Certainly before, you know, there were	3	Q Are you aware that the epidemiologic literature
4	lawsuits and all of this in the media.	4	shows that there is no association between
5	So what we were able to show in the	5	perineal talc use and endometrial ovarian
6	Schildkraut paper, we stratified from interviews	6	endometrial cancer?
7	prior to 2014 and after 2014. And definitely	7	I will restate it.
8	there is an attenuation of the odds ratio, so that	8	Are you aware that literature shows that
9	there was some evidence that there was potentially	9	there is no association between peritoneal talc
10	recall bias in the group that was interviewed	10	use and endometrial cancer?
11	after 2014, which is a really small subset of	11	MS. PARFITT: Objection to form.
12	women in the grand scheme of things when you look	12	A I have seen I have studied endometrial cancer.
13	at all of the cases and controls.	13	I have seen some data indicating no association.
14	We still had evidence consistent with an	14	Q But sitting here today, you don't have an opinion
15	association between talc use and EOC in the women	15	on it one way or the other?
16	who were interviewed prior to that time. That was	16	ی کی ا
17	really in line with the increase in risk seen in	17	not done a systematic review of the literature.
18	these other four or five decades of studies.	18	Q I saw in your C.V. that you were on the
19	Q So there, your testimony there was related to the	19	Epidemiology Endometrial Cancer Consortium
20	fact that you have other reasons to discount	20	Steering Committee, is that correct?
21	recall bias, correct?	21	A Correct.
22	A Correct.	22	Q And if there was evidence to support the notion
23	Q I was specifically asking about Cramer's	23	that perineal talc use causes endometrial cancer,
24	histologic point that you were making.	24	you would be aware of that evidence, is that
25	Do you understand that?	25	correct?

	Page 42		Page 44
1	MS. PARFITT: Objection.	1	A No.
2	A No, not necessarily. E2C2 is what we call it.	2	Q Do you believe that it is relevant to your opinion
3	What the Epidemiology of Endometrial Cancer	3	that you are offering today whether or not talc
4	Consortium does is, similar to what the Ovarian	4	can cause endometrial cancer or cervical cancer?
5	Cancer Association Consortium, OCAC, does, which	5	Do you believe it is relevant, yes or no?
6	it brings together investigators from around the	6	A No. Because there are two, those are two very
7	world that have case control or cohort studies.	7	different organs with very different functions.
8	We include both case control and cohort	8	A good example is, you know, the endometrium,
9	studies. And we use this as a mechanism to pool	9	at least premenopausally, sheds approximately
10	our data and to examine the question, or to	10	every month.
11	examine different questions.	11	The cervix, for example, is exposed to a
12	So in endometrial cancer, you know, we have	12	much, kind of wider array of exposures. You know,
13	published, I have published using the E2C2 data	13	HPV being one of them.
14	looking at risk factor differences between Black	14	So, again, we are looking at different organs
15	and White women.	15	with different functions. It is all part of the
16	We have looked at all different dietary	16	female genital tract, so it is kind of like by
17	things. We are somewhat constrained by what is	17	location, but it's different subtypes.
18	asked in those, in every studies' questionnaire.	18	And so when you think about specificity of
19	So, you know, we don't necessarily meet as a	19	the association, that is one of the considerations
20	group even monthly. The steering committee	20	in Bradford Hill's analysis. Specificity, you
21	usually only meets maybe five times a year. And	21	know, kind of one exposure one disease, you know,
22	really it's to examine paper proposals from, you	22	many years ago was considered, you know, stronger
23	know, investigators all over the world who want to	23	evidence of a causal association. It's less so
24	use our data.	24	today.
25	I've not seen in my, you know, probably ten	25	So if I think about other, you know, female
	Page 43		Page 45
1	years now of being associated with that consortiun	l .	cancers and the association with talc for the
2	any request to look at talc. Nor do I even know	2	purposes of, you know, this expert report, it
3	how many of the different case control studies ask	3	would just be with respect to specificity of the
4	that question.	4	exposure and the outcome.
5	Q So there is no professional movement to study tal		Q In your report you said that there is some
6	in endometrial cancer, correct?	6	evidence that the talc ovarian cancer association
7	MS. PARFITT: Objection.	7	y
8	A I can't say what has been going on in other	8	A That the talc and ovarian cancer may be specific,
9	circles, no.	9	yes.
10	Q You are not aware of any professional focus on	10	Q Do you recall putting that in your report?
11	talc and endometrial cancer, correct?	11	A Yes.
12	A Correct, I am not.	12	Q And you cited the Wentzensen and O'Brien review
13	Q Your theory or hypotheses in this case is that	13	article for that proposition, correct?
14	talc can potentially or likely migrate up the		A Yes.
15	female genital tract, is that correct?	15	Q Sitting here today, just to confirm, you have not
16		16	reviewed comprehensively the literature on talc
17 18	Q Is that correct? A Correct.	17	and endometrial cancer and talc and cervical
19		18	cancer, is that correct?
20	Q Under that hypothesis, perineal talc would come into contact with the endometrium and the cervix,	19	A That is correct. O You are not offering any opinions on specific
20 21		20	Q You are not offering any opinions on specific
21 22	correct? MS. PARFITT: Objection.	21 22	causation today, correct? Do you know what that term means?
23	A Correct.	23	A I do not.
24	Q Yes or no, have you looked at the literature on	23	Q Okay. Let me rephrase.
25	talc and cervical cancer?	25	You are not offering an opinion today that
	tare and cervical cancer:		Tou are not offering an opinion today that

	Page 46	Page 48
1	talc specifically caused an individual's ovarian	1 on your expertise, you world, are you aware of any
2	cancer, correct?	2 methodology to conclude that talc specifically
3	A Correct. I don't know anything about the	3 caused a specific individual's ovarian cancer?
4	individuals represented in this case.	4 MS. PARFITT: Same objection.
5	Q Your opinion today is that talc can be a general	5 A I am unaware of any methodology, including my own,
6	cause of ovarian cancer, correct?	6 that could specify that talc caused an ovarian
7	MS. PARFITT: Objection.	7 cancer in a certain individual. I'm not sure that
8	A Correct. It can be a cause of ovarian cancer.	8 that exists.
9	Q Okay. Have you ever reached an opinion that a	9 Q Do you know anything about any of the plaintiffs
10	specific individual's ovarian cancer was caused by	in the MDL or the state court litigation?
11	talc?	11 A No, I do not.
12	A No. I'm not familiar with individual patient	12 Q Do you know anything about Ms. Rausa, Ms. Judkins,
13	cases.	13 Ms. Newsome, Ms. Gallardo, Ms. Converse,
14	Q Have you ever discussed with anyone whether a	14 Ms. Bondurant, Ms. Carl, or Ms. Balderrama?
15	specific individual's ovarian cancer was caused by	15 A No.
16	talc?	16 Q Have you reviewed any of those individual's
17	A No.	17 medical records, pathology, radiology,
18	MS. PARFITT: Objection.	depositions, or discovery responses?
19	Q Have you ever told a specific individual who used	19 A No.
20	talc that they were at an increased risk for	20 Q Do you know anything about their medical
21	developing ovarian cancer because of their talc	21 histories, their subtypes of ovarian cancer, their
22	use?	22 course of treatment or risk factors?
23	A No.	23 A No.
24	Q Are you aware sitting here today of any recognized	24 Q Do you know anything about their genetic or family
25	scientific methodology to take the body of	25 history?
	Page 47	Page 49
1	evidence that you have reviewed and use that	1 A No.
2	evidence to make a conclusion that talc	2 Q Are you aware that multiple of your literature
3	specifically caused a specific individual's	3 cited references in your report are materials that
4	ovarian cancer?	4 were authored by retained experts for the
5	MS. PARFITT: Objection. Form.	5 plaintiffs?
6	A Can you restate that question?	6 MS. PARFITT: Objection.
7	Q Sure. Sitting here today, are you aware of any	7 A I do.
8	recognized scientific methodology to take the body	8 Q Can you open your report, please?
9	of evidence that you have used in your report and	9 A Yes.
10	conclude that talc use specifically caused a	10 Q You have it with you. Can you please turn to your
11	specific individual's ovarian cancer?	11 literature cited page. That is on Page 41.
12	MS. PARFITT: Objection.	12 A Yes.
13	A I'm not I'm still not sure even after the	13 Q Do you know how many of your literature cited
14	second repeat of that question that I am	references are references that are authored by
15	understanding what the point is.	paid experts for the plaintiffs in this litigation
16	Am I aware I will try to restate it to	16 offhand?
17	clarify it in my mind.	17 MS. PARFITT: Objection.
18	Am I aware of any body, organization that has	18 A No, I do not.
19	used the methodology that I used in my report to	19 Q When you cited references in your report that were
20	determine if a single individual, if the ovarian	20 authored by paid experts for the plaintiffs did
21	cancer in a single individual was caused by talc,	you note that in the report?
22	is that correct?	MS. PARFITT: Objection.
23	Q Let me try again.	23 A I don't believe I did.
24 25	A Okay.Q Are you aware of any scientific methodology based	 Q In contrast, when you did review articles that were authored by authors who were associated with
	A re vou aware of any scienning methodology based	25 were authored by authors who were associated with

1	Page 50	1	Page 52
1	industry or Johnson & Johnson you did note that,	1	J I I I
2	didn't you?	2	they started their work back in the nineties.
3	MS. PARFITT: Objection.	3	Q My question is about the letters to the editor.
4	A I think sometimes I did. The difference was a lot	4	Do you know when those were written? Those
5	of the literature cited in the report here by	5	were written in 2020, correct?
6	people who I know now are plaintiff experts or	6	
7	that it was disclosed, it is original literature.	7	Q When you cited those letters in the report did you
8	It was in the I have a section. I will	8	note that in the report that those were paid
9	look at it just to make sure we are talking about	9	experts for the plaintiffs?
10	the same thing. It was commentaries oftentimes.	10	MS. PARFITT: Objection. Asked and
11	So a lot of the things that I noted that were	11	answered.
12	from the defendant's experts or paid experts, were		Q Yes or no?
13	based on reviews and things that did not include,		A No.
14	like, novel generated analyses, you know, based or		
15	case control studies or cohort studies that they,	15	Number 34 the reference to Longo?
16	themselves, were involved in.	16	A Yes.
17	I can give an example. Some of those are	17	Q Do you understand he's a paid expert for the
18	on I'm not finding them.	18	plaintiffs?
19	Q When you cited Cramer's	19	A I do.
20	MS. PARFITT: She is looking for	20	Q When you cited his material in your report did yo
21	something.	21	disclose that he was a paid expert for the
22	MR. JAMES: She finished the answer.	22	plaintiffs?
23	A I had not. I'm trying to find you exactly where.	23	MS. PARFITT: Objection.
24	Q I did not ask for you to find me exactly where.	24	A I do not know if I did or not.
25	MS. PARFITT: It was part of the answer.	25	Q For Number 40 do you see Crowley?
	Page 51		Page 53
1	Q I asked you a simple question.	1	A Yes.
2	MS. PARFITT: Scott, you may have asked a	2	Q Do you know if he is a paid expert for the
3	very simple question. You can't	3	plaintiffs?
4	Q Which is, did you note in the report	4	A Yes.
5	MS. PARFITT: Scott, please. Excuse me	5	Q In fact, that is a litigation report that you
6	for one moment.	6	cited, correct?
7	MR. JAMES: No. You're not going to talk	7	A I believe so.
8	over me. It's my deposition.	8	Q If you look at Page 44, Number 58?
9	MS. PARFITT: You are required under the	9	A Yes.
10	rules to allow a witness to answer responsively	10	Q When you cite the McDonald paper were you aware
11	your questions. Choose your questions carefully.	11	there are paid plaintiff experts who are authors
12	You may complete your answer, Doctor.	12	of that paper?
13	A Yes. I just wanted to note that that is on Pages	13	MS. PARFITT: Objection.
14	23 and 24 of my report.	14	A I can see Cramer's name, so yes.
15	MS. PARFITT: Thank you.	15	Q Do you know that in 2019 he was a paid plaintiffs'
16	Q Dr. Cote, when my question calls for a yes or no,	16	expert?
17	that is what I'm asking for. Okay?	17	A I'm aware of that.
18	When you cited Cramer's letter to the editor	18	Q Do you know that Welch and McDonald and Godleski
19	and Harlow's letter to the editor, those are not	19	are also paid plaintiff experts?
20	original pieces of literature, correct?	20	MS. PARFITT: Objection.
21	A Correct.	21	A I do not recall those names, no.
22	Q Did you note in your report when you cited those	22	Q Turn the page. Look at Number 59.
23	letters to the editor that those were paid experts	23	Do you see the Johnson study?
24	for the plaintiffs?		A Yes.
25	MS. PARFITT: Objection.	25	Q Okay. For Reference Number 59, do you know that
	mo. 17 mil 111. Objection.	23	Z ORay. 1 of Reference Humber 37, do you know that

D 54	D 56
Page 54 1 Johnson, McDonald and Godleski are paid	Page 56 1 Q Mathematically just under ten percent of the
2 plaintiff's expert?	2 literature pieces that you cite, the primary
3 MS. PARFITT: Objection. Asked and	3 literature, just under ten percent is written by
4 answered.	4 paid plaintiffs' experts.
5 A No.	5 Did you know that?
	6 MS. PARFITT: Objection.
6 MR. JAMES: Actually I had not asked about 7 Johnson yet.	7 A No, I did not know that. But it is not surprising
8 Q For Number 60 do you see the Godleski paper there	8 to me given that especially among epidemiologists
9 again?	9 we publish in large groups.
10 A Yes.	10 Q Does that concern you in any way, yes or no?
11 Q You understand that Godleski is a paid plaintiffs'	11 MS. PARFITT: Objection.
12 expert?	12 A No.
13 MS. PARFITT: Objection.	13 Q Did you note anywhere in your report all of the
14 A Yes.	pieces that I just mentioned were written by paid
15 Q Did you know that before coming here today?	plaintiffs' experts?
16 A I can't say specifically whether or not I did	16 MS. PARFITT: Objection.
17 unless it was disclosed on there, on this	17 A No.
18 publication.	18 Q Would it have been appropriate to note that in
19 Q For Reference Number 64, do you see the Mandarino	19 your report?
20 article?	20 MS. PARFITT: Objection.
21 A I do.	21 A No. These are established scientists with, in
22 Q Do you know if that is a product of a paid	many cases, decades worth of history way before
23 plaintiff's expert?	the talc and ovarian cancer litigation came out
24 MS. PARFITT: Objection.	who have been working in this area really for the
25 A I do not.	25 entirety of their professional lives.
Page 55	Page 57
1 Q For Number 66, the Fletcher paper, do you know if	1 I evaluate their papers the same as I
2 that is the product of a paid plaintiffs' expert?	2 evaluate any other papers in terms of the rigor of
3 MS. PARFITT: Objection. Asked and	3 their approach, the methodologies that they use,
4 answered.	4 the analysis that they do, and the conclusions
5 A Yes, we discussed that earlier.	5 they draw from their results. That is how I
6 Q That is Saed, correct?	6 analyze the papers and how I include them in the
7 A Yes.	7 reports.
8 Q For Number 71, Woolen, are you aware that is a	8 I am more critical of, like I said, the
9 product of a paid plaintiffs' expert?	9 reviews that are not invited reviews that tend to
10 MS. PARFITT: Objection.	just be, you know, open responses or letters to
11 A Yes.	the editor and those sorts of things, which is why
12 Q Are you aware that Smith-Bindman is a paid	12 I included them in the separate section just
13 plaintiffs' expert?	because, again, I feel differently about people
14 A Yes.	who are designing and analyzing their own
15 MS. PARFITT: Objection.	15 independent studies, versus just kind of
16 Q Turn the page to 72, 73, 74, 75, these are the	summarizing, oftentimes in a way that seems to
letters to the editor I was just mentioning.	lack any structure, summarizing their opinions.
18 A Yes.	That is really why I distinguish those
19 Q Do you see those?	separate sections. And it's a different means of
20 A Yes.	20 evaluating them.
21 Q Do you understand all of those letters were	MS. PARFITT: Scott, we have been going
22 written by paid plaintiffs' experts?	22 about an hour. I don't want to interrupt a trend
23 MS. PARFITT: Objection. Asked and	23 or the middle of your questioning.
24 answered.	24 Can we take a break?
25 A Yes.	MR. JAMES: I would like to finish this

Page 58	Page 60
1 line. I have just a couple more.	1 inactivity, hormone therapy duration, talc use on
2 MS. PARFITT: Yes.	2 genital areas, and PID appear to be driving the
3 Q With respect to plausibility, you cited and	3 higher overall distribution"
4 emphasized the Fletcher, the Mandarino, the	4 Do you see that?
5 McDonald and Johnson studies.	5 A Yes.
6 All of those studies are ones we just cited	6 Q You were referring in this paper to talc as an
7 as studies by experts who have been retained and	7 inflammation-related exposure, fair?
8 paid by plaintiffs.	8 A That is correct.
9 Are you aware of that?	9 Q Turn to Page 7, Dr. Cote.
10 MS. PARFITT: Objection.	10 A Yes.
11 A I am.	11 Q Do you see under the Competing Interests section
12 Q Does it concern you that the materials you are	12 it says, "The authors declare no competing
relying on for plausibility are authored by paid	13 interests." Correct?
14 plaintiffs' experts?	14 A Yes.
MS. PARFITT: Objection.	15 Q So you do not have a conflict of interest declared
16 A No. Those are only a subset of the materials that	16 in this paper, correct?
17 I'm relying upon for plausibility. Many of the	17 A Correct.
other papers in there looking at things like the	18 Q You got retained, I think, you told me you were
19 actual talc migration were done in, like,	19 first contacted early 2023. You had those calls
20 retrograde menstruation and some evidence that	we talked about in March of 2023.
21 there is, you know, this bidirectional flow, those	21 The byline of this paper says it was received
were done years, decades in the 1950s prior to any	March 2023, revised July 2023, accepted July 2023
23 of this talc litigation.	23 and published August of 2023.
24 Q Okay.	Do you see that?
25 MR. JAMES: Let's take a break.	25 A Yes.
Page 59	Page 61
1 (OFF RECORD AT 10:06 A.M.)	1 Q So this paper came out after you were retained,
2 (AT THIS TIME A SHORT RECESS WAS HELD OFF	2 correct?
3 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	3 MS. PARFITT: Objection.
4 WERE HAD:)	4 A No. No, it did not. I did not really take on
5 (ON RECORD AT 10:13 A.M.)	5 this work, as you can see from my invoices, until
6 BY MR. JAMES:	6 really into September.
7 Q Are you ready to go?	7 Q You were invoicing for time for which you got paid
8 A Yes.	8 by plaintiffs' counsel as early as March 2023,
9 Q In 2023 you authored a paper entitled Association	9 correct?
10 of Inflammation Related Exposures.	10 A But I had not formed any opinion.
Do you recall that article?	11 Q But you were still serving as an expert, correct?
12 A No. I would like to see it.	MS. PARFITT: Objection. Misstates her
13 Q Of course. I will mark that as Exhibit Number 4.	13 testimony.
14 (EXHIBIT NUMBER 4 WAS MARKED FOR	14 A No. I was reviewing the literature, but I was not
15 IDENTIFICATION.)	15 yet engaged as an expert, no.
16 A Oh, yes. The survivor study.	16 Q Okay. So by August 2023 had you reached the
17 Q Again, this is a paper that you are an author on?	17 opinion that talc causes cancer?
18 A Correct.	18 A No. You will note from my invoicing that pretty
19 Q This articles includes multiple references to	much over the summer I did, you know, very little,
20 talc, correct?	20 very little work in this area.
21 A It does.	21 Q So your position is that you did not need to
22 Q Look at Page 5 of the article, left column, bottom	declare a conflict of interest because you had not
23 paragraph.	reached a general causation opinion by the time
24 A Yes.	24 this paper published, correct? 25 A Yes.
25 Q It says, "Characteristics such as physical	23 A 158.

	Page 62		Page 64
1	Q If you published this paper this year would you	1	A No, I do not.
2	issue a conflict of interest statement?	2	Q Do you think the readers of this paper are
3	A Yes.	3	entitled to know that one of the authors was
4	Q That is because one of topics in the paper is a	4	working as a paid expert at the time that this
5	topic on which you comment in your litigation	5	paper came out?
6	report, correct?	6	MS. PARFITT: Objection. Misstates her
7	MS. PARFITT: Objection. Form.	7	responses.
8	A You said one of the topics in the paper.	8	A I did not create this index. I was, I am not a
9	Q Sure.	9	primary person on this. And in my mind I had not
10	A What are you referring to?	10	yet reached an opinion as to whether or not talc
11	Q I will do a better job.	11	can cause ovarian cancer, which is a very
12	Again, you were referring in this paper to	12	different question than whether talc is associated
13	talc as an inflammation-related exposure, is that	13	with poor survival or improved survival, for that
14	correct?	14	point, after an ovarian cancer diagnosis.
15	A Yes, but not in the sense of exposure in terms of	15	So we are looking at a very different
16	something that initiates disease. This is a very	16	outcome.
17	different outcome we are looking at.	17	Q You are a member of the African-American Cancer
18	This is ovarian cancer survival. I should	18	Epidemiology Study Group, correct?
19	also note that this paper is actually kind of a	19	A Correct. It's not really a study group. It was a
20	replication of a study. This is all	20	grant. It is a grant, yes.
21	African-American or Black women. This paper is a	21	Q Are there any plans with the AACES to do further
22	replication study.	22	studies on talc?
23	The entire inflammatory index and everything	23	A I do not believe so. Simply because, again, where
24	was developed not by me personally. There may	24	we have shifted is from looking at incidence of
25	have been some of the other authors on the	25	disease or etiology of disease, which some of the
	Page 63		Page 65
1	original paper. But it is this I'm sorry	1	earlier papers like the Schildkraut 2016 paper
2	her name is Catherine I have to find it again.	2	into survivorship issues. This paper here more or
3	B-R-I-E-G-E-R. That is Reference Number 13.	3	less captures kind of a more comprehensive way to
4	And actually Number 14 is the one where she	4	examine inflammation.
5	developed this inflammation-related risk score.	5	So I do not I have not heard that anybody
6	So what we did was that study was in primarily	6	is interested in doing anything talc specific in
7	White women.	7	this group.
8	We took that risk score and tried to apply it	8	
9	to our African-American case control study.	9	do comment on talc as an inflammation-related
10	Q Regardless, you would agree that if you wrote thi		exposure, both for the initiation and the
11	paper today you would include a conflict of	11	progression of ovarian cancer, right?
12	interest disclosure, correct?		A It can be potentially, yes. I'm not sure where I
13	A Yes.	13	say that in the report.
14	Q And do the co-authors of this paper know that you		
15	are doing work for plaintiffs on the talc		A Potentially it can be. But I've not done a
16	litigation?	16	systematic review looking at progression,
17	MS. PARFITT: Objection to form.	17	recurrence, cancer specific survival.
18	A No, I don't believe so.	18	Q Do you intend to advise the AACES colleagues that
19	Q Is there some sort of mechanism that would allow		you are now doing paid expert work for the
20	you to contact the Journal to allow you to add the	20	plaintiffs in the talc litigation?
21	disclosure in the online version?		A Yes, I'm comfortable to do so.
22	A I don't know. I have never thought about it. If	22	
23	I I could contact the Journal, I imagine.Q Do you think it would be appropriate to do so?	23	issues relevant to the litigation, fair?
2.4	LE LIO VOIL ININK IT WOULD be appropriate to do so?	24	A Fair.
24 25	MS. PARFITT: Objection.	25	Q Other than Schildkraut 2016, have you authored any

	P. ((D 60
1	Page 66 papers that assess the association between talc	1	Page 68 and I guess Johnson have you ever given any
2	and ovarian cancer?	2	presentation, speeches, or lectures concerning
3	A Ovarian cancer incidence meaning?	3	talc and ovarian cancer or asbestos and ovarian
4	Q Yes.	4	cancer?
5	A No, that is it.	5	A No, I have not.
6	Q Have you authored any other papers other then	6	Q Have you ever given any statements or interviews
7	Schildkraut and Johnson that assess an association	7	related to talc and ovarian cancer or asbestos and
8	between talc and ovarian cancer in any way?	8	ovarian cancer?
9	A No.	9	A No, I have not.
10	Q Have you submitted any portion of your litigation	10	Q Have you ever authored any internet postings or
11	report or the substance of your litigation report	11	blogs related to talc and ovarian cancer or
12	for peer review?	12	asbestos and ovarian cancer?
13	A No.	13	A No, I have not.
14	Q Do you intend to work on any articles related to	14	Q Have you ever prepared or used any teaching
15	talc?	15	materials for your students or in your
16	A Do I intend to work on any articles related to	16	professional life concerning talc and ovarian
17	talc?	17	cancer or asbestos and ovarian cancer?
18	Q I can be more specific.	18	A No, I don't believe so.
19	A Yes, please.	19	Q Okay. And when I think of teaching materials, I
20	Q Do you intend to work on any articles related to	20	think of things like slides or PowerPoints or
21	talc and ovarian cancer?	21	charts.
22	A At this point in time I am mostly interested in	22	Is there anything like that that you have
23	publishing novel data and novel analyses. So I	23	done in your professional history?
24	don't have any specific plans to we are not	24	
25	going to develop a new cohort or case control	25	Q Have you ever talked with any health care
	Page 67		Page 69
1	study that is going to be able to address this	1	professionals to tell their patients to stop using
2	question in a meaningful way. So, no, I don't	2	talc?
3	believe I will.	3	MS. PARFITT: Objection. Form.
4	Q If you did so, you would declare a conflict of	4	A No, I have not.
5	interest, correct?	5	Q Have you ever suggested to a health care
	A Yes.	6 7	professional that they assess a patient's risk for
8	Q You believe that would be the proper thing to do for any expert working in talc litigation to	8	ovarian cancer based upon prior talc usage? MS. PARFITT: Objection to form.
9	declare a conflict of interest on a paper?	9	A No, I have not. I came to this conclusion about
10	MS. PARFITT: Objection.	10	four months ago.
11	A I can only speak personally what I would do.	11	I'm trying to think if I have even interacted
12	Q You would personally be governed by the disclosure	12	with any sort of clinical professional in the last
13	requirements of the Journal as well?	13	four months. I don't think I have.
1	A Correct. They all have different requirements.	14	
15	Q As a scientist you can understand how working in a	15	care professionals to suggest that they consider
16	litigation as a paid expert could be perceived as	16	offering risk reducing surgeries for prior talc
17	a conflict of interest, correct?	17	users?
18	MS. PARFITT: Object to form.	18	A No.
19	A Yes, I understand it can be perceived as a	19	Q Have you ever talked to any health care
20	conflict of interest. That is why we do list	20	professionals to encourage them to use additional
21	them.	21	screening or monitoring for ovarian cancer based
22	Q Have you ever authored any papers on asbestos and	22	upon prior talc usage?
23	ovarian cancer?	23	A No.
24	A No, I've not.	24	Q Have you ever talked with any, or had any
25	Q Have you ever given any outside of Schildkraut	25	communications with any public health agencies or
24	A No, I've not.	24	Q Have you ever talked with any, or had any

	D 50		D =0
1	Page 70	,	Page 72
$\frac{1}{2}$	scientific or medical organizations or regulatory	1	Q Have you ever discussed the topic of talc and
2	bodies about talc and ovarian cancer or asbestos	2	ovarian cancer with anyone at Komen?
3	and ovarian cancer?	3	A No.
4	MS. PARFITT: Objection. Compound.	4	Q I'm shorthanding that. We are discussing Susan G.
5	A No. No to both.	5	Komen, correct?
6	Q In your report you state that certain prophylactic	6	A Correct. Yes.
7	surgeries or procedures can be offered as a risk	7	Q Do you have an opinion on the number of ovarian
8	reduction strategy for women who have known	8	cancer cases diagnosed per year that you believe
9	inherited mutations, right?	9	could be attributed to talc usage?
10	A Correct.	10	A So, again, this goes back to my expert report.
11	Q Are you aware of any health care institution or	11	These were estimates provided by Wu. He was
12	physician or organization that counsels on or	12	looking at three different populations.
13	recommends prophylactic surgeries as a means of	13	He was looking African-American the same
14	risk reduction for cancer for prior talc users?	14	population in California, but African-American
15	A I'm unaware of any. But, again, I also have not	15	women, Hispanic women, and non-Hispanic White
16	asked that question.	16	women. He came up with estimates of population
17	Q Okay. Are you aware of any health care	17	attributable risk, which essentially means if you
18	institution or organization that counsels or	18	removed said exposure from the population it would
19	recommends additional cancer screenings for prior	19	reduce the number of cases by a certain number.
20	talc users?	20	He quoted for those three different
21	A I'm unsure what kind of screening you would be	21	populations between about twelve and
22	referring to because there is not really	22	fifteen percent reduction. So, you know, if you
23	population-based broad screening for ovarian	23	look at, you know, I have to do hard math, you
24	cancer.	24	know, if you were going to say, like, there's
25	So there is really no screening to even	25	approximately 12,000 cases every year, you could
	Page 71		Page 73
1	Page 71 offer.	1	Page 73 say that somewhere between 1,200 and perhaps 1,500
	offer.	1 f 2	say that somewhere between 1,200 and perhaps 1,500
2	offer. Q And just to wrap that up. Again, are you aware o	f 2	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect
2 3	offer. Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that	f 2	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.
2 3 4	offer. Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so?	f 2 3 4	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc. If you removed talc from the population you
2 3 4 5	offer. Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so? That recommends additional screening or	f 2 3 4 5	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc. If you removed talc from the population you would remove that on an annual basis.
2 3 4 5 6	offer. Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so? That recommends additional screening or monitoring for ovarian cancer based upon prior	f 2 3 4 5 6	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc. If you removed talc from the population you would remove that on an annual basis. Q Do you hold that opinion, or is that something
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	Page 74		Page 76
1	in this litigation has attributed between 2,300	1	population.
2	and 6,500 ovarian cancer cases a year to talc	2	To me that would be maybe at the end of the
3	usage?	3	range, but not wildly outside of it.
4	Are you aware of that, yes or no?	4	Q Sitting here today, have you calculated an
5	MS. PARFITT: Objection.	5	attributable risk for ovarian cancer?
6	A Can you tell me what years that was from?	6	A I've not, no.
7	Ovarian cancer has been decreasing slightly	7	Q Your Appendices A is your C.V., correct, to your
8	in the community. Talc use has been decreasing	8	report?
9	substantially in the community.	9	A I believe so. I'm there.
10	So I'm wondering what years those were quoted	10	Q I see that from 2016 to 2022 you were the
11	from?	11	associate center director for cancer research at
	Q Let me just rephrase the question.	12	Karmanos, correct?
	A Okay.		A Cancer research training and education was the
	Q Based upon 2023 diagnoses for ovarian cancer, do	14	final name of that. Yes. It's very different
	you think it's in any way scientifically valid to		•
15		15	than for just cancer research.
16	claim that between 2,300 and 6,500 cases of	16	This was more about mentoring junior faculty
17	ovarian cancer a year are attributable to talc	17	and all levels of trainees to make sure that they
18	usage?	18	had the things that they needed to succeed in a
19	MS. PARFITT: Objection. Form.	19	faculty role.
	A Again, you know, based on we don't have data	20	Q Did you ever teach at Karmanos on talc and ovarian
21	really for talc use in the population in 2023. We	21	cancer?
22	don't have, you know, we are not talking about the	22	A I taught at Wayne State University.
23	breakdown by race and ethnicity. I think there	23	Q Okay.
24	was some discussion that Black women are more	24	A I taught introductory classes in epidemiology. I
25	likely to use talc. Those numbers are not outside	25	never specifically taught on talc and ovarian
	Page 75		Page 77
1	of the ballpark. No.	1	cancer, no.
2	Q Do you think there is any consensus in the medical	2	Q At either Wayne State or Karmanos, is that
3	and scientific community that up to 6,000 cases of	3	correct?
4	ovarian cancer diagnosed every year are	4	A Correct. But Karmanos is not a teaching
5	attributable to talcum powder?	5	institution in that regard, like, didactic
6	MS. PARFITT: Objection. Asked and	6	teaching.
7	answered.	7	Q Are you aware you were at Karmanos for a lon
8	A Again, you know, 6,000, so that out of the, you	8	time, correct?
9	know, between 12,000 and 13,000 that will	9	A Correct. Over twenty years.
10	probably, you know, be diagnosed, I know they were	10	Q Are you aware of whether Karmanos maintains a
11	diagnosed in 2023 but we don't really have those	11	public-facing webpage to provide information and
12	data complete yet, saying that almost fifty	12	resources on ovarian cancer?
13	percent would be attributable to talc or could be	13	A I'm not aware as to whether or not they do.
14	if talc were removed, you know, from the	14	Q Is that something that you have ever looked at?
15	population that we would not have seen those	15	A Have I looked at the Karmanos website for that,
16	cases, I don't believe that there is consensus.	16	no.
		17	(EXHIBIT NUMBER 5 WAS MARKED FOR
17	But I think the other consideration is just	18	IDENTIFICATION.)
18	not just what is going on in the U.S. but what is		•
19	going on worldwide. Certainly, worldwide those	19	Q I will hand you what I have marked as Exhibit
20	numbers would be absolutely valid.	20	Number 5.
	Q My question specifically is about the	21	You can see that is a document titled,
21		22	Ovarian Cancer Treated at Karmanos.
21 22	United States.		D 4 10
21 22 23	A Okay. No. Again, we don't have those data. We	23	Do you see that?
21 22			-

	Page 78		Page 80
1 A No	o, not that I recall.	1	sections on What is ovarian cancer? Who can get
	you flip to the second page you can see it	2	ovarian cancer? The symptoms, and then on the
	ntifies the gynecologic oncologists that treat	3	third page, How do I lower my risk for ovarian
	rian cancer, correct?	4	cancer?
	orrect. Yes. And other female cancers, sure.	5	Do you see that?
	e see here on the first page under Treatment of	6	A Yes, I do.
	arian Cancer that Karmanos refers to information	7	Q Is this a page that you have seen before?
	m the National Cancer Institute.	8	A No, it's not.
	Do you see that on the first page?	9	Q And you can see under the section, Who can get
	ire. Yes.	10	ovarian cancer, if you flip to the second page, do
	says, "Includes information about ovarian	11	you see they list risk factors?
	cer, causes, risk factors, diagnosis and	12	A They list some of the risk factors, yes.
	atment."	13	Q Is talc mentioned there?
		14	A No. Talc is not mentioned there, but neither is
	Do you see that?	15	something like obesity.
15 A I d		16	Q But talc is not mentioned?
	nd when you click on that link it links you to	17	A Correct, it's not. But it does not appear to be a
	NCI PDQ.	18	
	Are you aware of that?	l	comprehensive list of things that might increase
	would assume that is where it goes. Yes, I know	19	your risk.
	PDQ.	20	In fact
-	o you think Karmanos' decision to links its	21	Q Are you critical of the information that Karmanos
	ients to the NCI PDQ for information on ovarian	22	puts out?
	cer causes and risk factors in a scientifically	23	A I go back to the statement that I have not
	and decision?	24	reviewed this until just now. I don't know the
25	MS. PARFITT: Objection.	25	process they use for getting this. Yes, it
1 4 6	Page 79	1	Page 81
	ientifically sound decision? I can't really	1	appears to me one of the biggest factors here that
	ge whether or not it is a scientifically sound	2	they don't mention is knowledge of a BRCA1 or 2
	ision because I don't know the science or the	3	mutation or Lynch syndrome.
	chodology behind how the NCI pulls all of these	4	They talk about family history. They don't
	a together.	5	specify that. So I would say that this list is
	I can't give an opinion as to whether or not	6	incomplete.
	scientifically sound.	l	Q Do you think the person who put this together at
	Karmanos wrong to link its patients to the NCI	8	Karmanos exercised sound, scientific, and medical
9 PD	Q?	9	
			judgment?
10	MS. PARFITT: Objection to the form.	10	MS. PARFITT: Objection.
11 A Ih	ave no opinion as to whether Karmanos is right	10 11	MS. PARFITT: Objection. A I cannot comment on their scientific rationale and
11 A I h 12 or v	have no opinion as to whether Karmanos is right wrong, again, because I don't know exactly the	10 11 12	MS. PARFITT: Objection. A I cannot comment on their scientific rationale and judgment because I don't know who put this
11 A I h 12 or v 13 met	ave no opinion as to whether Karmanos is right wrong, again, because I don't know exactly the chodology behind how NCI puts together these PDQ	10 11 12 13	MS. PARFITT: Objection. A I cannot comment on their scientific rationale and judgment because I don't know who put this together, whether it was a group of people. I
11 A I h 12 or v 13 met 14 pag	ave no opinion as to whether Karmanos is right wrong, again, because I don't know exactly the chodology behind how NCI puts together these PDQ es, how frequently they review them, and so on.	10 11 12 13 14	MS. PARFITT: Objection. A I cannot comment on their scientific rationale and judgment because I don't know who put this together, whether it was a group of people. I don't know if it was just pulled from somewhere
11 A I h 12 or v 13 met 14 pag 15 I	have no opinion as to whether Karmanos is right wrong, again, because I don't know exactly the chodology behind how NCI puts together these PDQ es, how frequently they review them, and so on. I did include a couple of these in my expert	10 11 12 13 14 15	MS. PARFITT: Objection. A I cannot comment on their scientific rationale and judgment because I don't know who put this together, whether it was a group of people. I don't know if it was just pulled from somewhere else.
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	Page 82	Page 84
1	You can't recall when you start menstruation.	1 Q It says it is quoting Dr. Winer. "The
2	You can't control your family history. To some	2 available data specific to talc is still
3	extent you can't control whether or not you have	3 questionable."
4	children or how many.	4 Do you see that?
5	So it's interesting that the focus here	5 A I do.
6	really just looked at non-modifiable risk factors.	6 Q He says, "Some epidemiologic studies show an
7	Q And if you look at Page 3 you can also see there	7 increase in risk with talc usage while others fail
8	are references to how I lower my risk factors.	8 to demonstrate this association. Many of these
9	There is references there to oral contraceptives	9 studies have significant sources of bias which
10	and breast feeding, correct?	10 could potentially call the studies' conclusions in
11	A Correct.	11 question."
12	Q As well as tubal ligation?	Do you see that?
13	A Correct.	13 A I do, yes.
14	Q When you were at Karmanos and Wayne State were you	14 Q Dr. Winer goes on to state in a quote, "Two of the
15	ever a member of the Gynecologic Oncology Multiple	15 largest prospective observational studies, the
16	Disciplinary Team?	Women's Health Initiative and Nurses Health Study,
17	A No, I was not.	17 did not show a definitive link."
18	Q Was that a team that you are familiar with?	Do you see that?
19	A It is.	19 A I do, yes.
20		20 Q Do you agree with Dr. Winer's comment at least in
21	, 5	21 2016 that the data specific to talc was
22		22 questionable?
23		23 MS. PARFITT: Objection to form.
24		24 A I don't necessarily agree with that, no. I would
25	ovarian cancer?	25 disagree with that statement.
	Page 83	Page 85
1	A No, I don't believe we have.	1 Q Do you agree with Dr. Winer's comment in 2016 that
2	Q Were you ever involved at Karmanos in the	2 many of these studies have significant sources of
3 4	publication of a newsletter or a document titled Hope?	3 bias?
5	A No, not that I'm aware of.	4 MS. PARFITT: Objection. Form.
6	Q Have you ever reviewed an edition of Hope	5 A Again, because I don't know what types of bias he6 is referring to or even what studies he is
7	regarding to talc and ovarian cancer?	referring to I would say no. I would not support
8	A Not in my memory, no.	8 that statement.
9	Q I will mark this as Exhibit Number 7.	9 Q Okay. Turn to Page 2.
10		10 You can see there is a photograph of
11		11 Dr. Winer.
12	·	12 Do you see that?
13		13 A Yes.
14		14 Q At the bottom of that first paragraph in the last
15		15 sentence he says this is a statement he has
16		16 authored.
17		17 Do you see his signature?
18	_	18 A Yes.
19	Q When was the last time you talked with Dr. Winer	19 Q He says, "As an ovarian cancer researcher and
20		20 gynecologic oncology specialist, I can say that
1		21 the current data is mixed and that even if there
21	Was it before you left?	21 the current data is mixed and that even if there
21 22		is a potential link, the absolute risk to any
	A Probably before then.	
22	A Probably before then. Q Understood. If you look at Page 1 at the bottom	22 is a potential link, the absolute risk to any

	Page 86	Page 88
1	Do you see that?	1 question.
	A Yes.	You can see here below that, like Karmanos,
3	Q Would you agree with Dr. Winer's comment in 2016	3 the AACR is linking to the NCI PDQ for ovarian
4	that the current data is mixed?	4 cancer prevention, correct?
5	MS. PARFITT: Objection.	5 A Yes, that is correct.
6	A No. I believe that the epidemiologic evidence	6 Q Do you believe that the AACR is wrong in linking
7	even in 2016 was fairly consistent and strong. I	7 its audience to the NCI PDQ for information on
8	would not say it was overly mixed.	8 ovarian cancer?
9	Q Would you agree with Dr. Winer's comment in 2016	
10	that the absolute risk to any individual woman is	
		_
11	likely small?	11 right or wrong in terms of what they choose to 12 link to.
12	MS. PARFITT: Objection.	
13	A I would say that talc is a modifiable risk factor	13 Q You have significant ties to the NCI, correct?
14	that, as Dr. Winer knows better than I, is an	MS. PARFITT: Objection.
15	absolutely devastating disease for women and	15 A Define significant.
16	families. Cancer happens to individuals, but it	16 Q Sure. I see from your C.V. that you have been a
17	affects the family and it affects the community.	17 reviewer for the NCI, correct?
18	Any increase in risk, whether it is small	18 A Yes.
19	with respect to a product that does not have any	19 Q You have chaired at least two NCI committees,
20	sort of medicinal benefit, that it is not small.	20 correct?
21	So I would disagree there, too. That	21 A Yes.
22	absolute risk to any individual is likely small is	22 Q You have served as editor and a manuscript
23	perhaps his opinion.	23 reviewer for the JNCI, correct?
24	But I think, further, it would it's an	24 A Yes. The JNCI specifically says that they are not
25	avoidable risk.	25 a Journal of the National Cancer Institute. They
	Page 87	
1	Q I see from your C.V. you are also affiliated with	1 consider themself distinct entities.
2	the AACR, correct?	2 Q My shorthand was incorrect.
3	A Yes. I'm a long-time member of AACR.	The Journal of the National Cancer Institute,
4	Q Are you aware that the AACR maintains a	4 correct?
5	public-facing page to provide patients information	5 A Yes.
6	about ovarian cancer?	6 Q That is what it's called?
7	A I don't believe I have ever looked at that page,	7 A It is. But look at their footnotes. They say
8	no.	8 that they are independent of the National Cancer
9	Q I will mark the AACR page titled Ovarian Cancer as	9 Institute.
10	Exhibit Number 8.	10 Q Understood. I was clarifying that I meant Journal
11	(EXHIBIT NUMBER 8 WAS MARKED FOR	11 when I said J.
12	IDENTIFICATION.)	You note in your report that you have been
13	Q Dr. Cote, is this a page or a website that you	supported by the NCI. You have reviewed programs
14	have ever seen before?	14 for the NCI. You have sat on panels for NCI
15	A No. I have not seen this simply because this is	15 designated comprehensive cancer centers, correct?
16	not where I go for my research information.	16 A Yes.
17	Q Do you understand that this is put out by the AACR	17 Q Do you hold the NCI in high regard?
18	to provide resources to patients and the like,	18 A Yes.
10		19 Q Do you consider the NCI to be a highly respected
19	correct?	
	MS. PARFITT: Objection.	20 cancer research organization?
19		20 cancer research organization?21 A I believe that NCI does some outstanding research,
19 20	MS. PARFITT: Objection.	21 A I believe that NCI does some outstanding research, 22 but they are also a government organization. They
19 20 21	MS. PARFITT: Objection. A I understand that AACR has this website. What the	21 A I believe that NCI does some outstanding research,
19 20 21 22	MS. PARFITT: Objection. A I understand that AACR has this website. What the goal is I'm not sure. I note that the source of	21 A I believe that NCI does some outstanding research, 22 but they are also a government organization. They

	D 00		n
1	Page 90 research and I have high regard for many of my	1	MS. PARFITT: If you need to reference
2	colleagues there. The external branch is more of	2	your documents, you may.
3	a, they facilitate and fund scientific research	3	A "Results from case control and covert studies are
4	all around the country and, in fact, the world.	4	inconsistent."
5	So there are kind of two different branches	5	Q On the prior, without I'm not trying to put the
6	when you talk about NCI. There is one that is	6	report in your mouth. Just the document in front
7	more research. There is one that more funds	7	of you, if you can see the PDQ, whether you agree
8	research. That research is vetted by the study	8	with it or not.
9	sections and things that we do.	9	A Correct.
10	So it's two different things. I do think for	10	Q Here you can see on the prior page there is a
11	the discussion here that they are both highly	11	title Factors with Inadequate Evidence.
12	regarded as mechanisms for funding, as well as for		Do you see that?
13	scientific research, yes.	13	A Yes.
14	Q Do you believe that information made available to		Q You can see that following this section there are
15	the public by the NCI and linked by Karmanos, by		a number of factors listed.
16	the AACR, and by other organizations that we hav		Perineal talc exposure is in that bucket,
17	looked at, do you believe that information made	17	fair?
18	available by the NCI can be trusted by health care	18	A Fair.
19	professionals and patients as credible	19	Q You can see here, and you just mentioned it, that
20	information?	20	the NCI PDQ reports that "Results from case
21	MS. PARFITT: Objection to form.	21	control and cohort studies are inconsistent, so
22	A I believe it does contain some credible	22	the data are inadequate to support an association
23	information. I also believe, just as I mentioned	23	between perineal talc exposure and an increased
24	with some of the Karmanos documents that we	24	risk of ovarian cancer."
25	showed, that the information is sometimes	25	Did I read that correctly?
	Page 91		Page 93
1	incomplete.	1	A You read that correctly, yes.
2	Q I will mark as Exhibit Number 9 the NCI PDQ.	2	Q I understand you disagree with the NCI, correct?
3	(EXHIBIT NUMBER 9 WAS MARKED FOR	3	MS. PARFITT: Objection to form.
4	IDENTIFICATION.)	4	A I disagree with the NCI with respect to this
5	A Yes.	5	particular statement, yes.
6		-	particular statement, yes.
7	Q As you mentioned, you do discuss this document in	6	Q Fair enough. Do you question the objectivity and
8		6	Q Fair enough. Do you question the objectivity and
	your report, correct?	6 7	Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board
	your report, correct? A Correct.	6 7 8	Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document?
9 10	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian	6 7 8 9	 Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form.
9 10 11	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct?	6 7 8 9 10	 Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or
9 10 11	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct? A Yes.	6 7 8 9 10 11	 Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or their qualifications. I just know nothing about
9 10 11 12 13	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct? A Yes. Q And if we look at, this is not paginated, but if	6 7 8 9 10 11 12	 Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions. Because when I look at this, you know, and I
9 10 11 12 13	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct? A Yes. Q And if we look at, this is not paginated, but if you go about four pages before the end.	6 7 8 9 10 11 12 13	Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions. Because when I look at this, you know, and I see their references here for this section, they
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9 10 11 12 13 14 15 16 17 18 19 20	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct? A Yes. Q And if we look at, this is not paginated, but if you go about four pages before the end. A Yes. I assume you are wanting Q The Perineal Talc Exposure. A Got it. Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions. Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven. So it's very unclear to me how they selected just these seven out of the four decades' worth of research. So I don't understand their methods so I
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct? A Yes. Q And if we look at, this is not paginated, but if you go about four pages before the end. A Yes. I assume you are wanting Q The Perineal Talc Exposure. A Got it. Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct? A I will assume that is correct. Let me look at my report. Q I can rephrase the question. If you just look at	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions. Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven. So it's very unclear to me how they selected just these seven out of the four decades' worth of research. So I don't understand their methods so I don't feel like I can really comment on whether I
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	your report, correct? A Correct. Q We see here this is the PDQ dedicated to ovarian cancer prevention, correct? A Yes. Q And if we look at, this is not paginated, but if you go about four pages before the end. A Yes. I assume you are wanting Q The Perineal Talc Exposure. A Got it. Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct? A I will assume that is correct. Let me look at my report.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Fair enough. Do you question the objectivity and the scientific credibility of the panel and board members who compiled this PDQ document? MS. PARFITT: Object to form. A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions. Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven. So it's very unclear to me how they selected just these seven out of the four decades' worth of research. So I don't understand their methods so I

	Page 94		Page 96
1	Q Are you suggesting that the NCI PDQ panel and	1	Do you acknowledge that they cite the Woolen
2	board members only considered these seven items?	2	article?
3	MS. PARFITT: Objection. Form.	3	A They do, yes, they do cite Woolen. But they do
4	A I have no idea what they considered and what went	4	not cite Phung.
5	into forming, you know, their opinion here because	5	Q Phung is the article you discussed earlier as
6	there are not any specifics about how they came to	6	related to endometriosis?
7	this conclusion outside of these references.		A Correct. Yes.
8	Q Have you looked at the history of the PDQ document	8	Q Then at the bottom of the page that says Latest
9	to see if the PDQ has referred to additional	9	Updates, do you see that?
10	literature along the way?	10	A Yes.
11	A I've not gone back in time and looked at the	11	Q That is the second to the last page.
12	history. I'm not sure how I would do that being	12	It says, "Board members review recently
13	that things are updated.	13	published articles each month"
14	Q Are you questioning the thoroughness of the	14	Do you see that?
15	NCI PDQ panel members in reviewing the literature	15	A I do.
16	and commenting on the association between talc and	16	Q Do you have any reason to question that?
17	ovarian cancer?	17	MS. PARFITT: Objection. Form.
18	MS. PARFITT: Objection.	18	A I have no reason to question whether or not or
19	A I'm questioning the methodology used because it's	19	when they review or their schedule of review, no.
20	unclear. I'm not questioning the reviewers, their	20	Q Do you have any reason to disagree with the
21	expertise.	21	statement that changes to the summary are made
22	Q If you can look to the second to last page with	22	through consensus process in which board members
23	me, Dr. Cote.	23	evaluate the strength of the evidence and
	A Yes.	24	published articles?
	Q At the top of the page it says Latest Updates.	25	MS. PARFITT: Objection.
	Page 95		Page 97
1	Do you see that?	1	
2	A Yes.	2	does not occur.
3	Q Excellent. We see here that it says the summary	3	Q Do you have any reason to question that the board
4	was most recently updated on March 6, 2024,	4	makes determinations on how or whether articles
5	correct?	5	should be included in the summary?
6	A Correct.	6	MS. PARFITT: Objection. Form.
7	Q This is a couple weeks ago, correct?	7	A I still question how they come to that decision.
8	A Yes. Correct.	8	They don't describe where they find, you know
9	Q You see below here that under the Reviewers and	9	they just say recently published articles each
10	Updates section it says, "This summary is reviewed	10	month. They don't describe who brings those
			monum they don't deserree who crimgs mose
11	regularly and updated as necessary by the PDQ	11	articles. They don't describe, you know, really
11 12	regularly and updated as necessary by the PDQ Screening and Prevention Editorial Board."	11 12	articles. They don't describe, you know, really
	regularly and updated as necessary by the PDQ Screening and Prevention Editorial Board." Did I read that correctly?		-
12	Screening and Prevention Editorial Board."	12	articles. They don't describe, you know, really any process for identification of those.
12 13	Screening and Prevention Editorial Board." Did I read that correctly?	12 13	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature,
12 13 14	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not	12 13 14	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that
12 13 14 15	Screening and Prevention Editorial Board." Did I read that correctly? A Yes.	12 13 14 15	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of
12 13 14 15 16	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly? MS. PARFITT: Objection. Form.	12 13 14 15 16	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly
12 13 14 15 16 17	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly?	12 13 14 15 16 17	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary
12 13 14 15 16 17 18	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly? MS. PARFITT: Objection. Form. A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is.	12 13 14 15 16 17 18	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things. So I can't imagine that they are on a monthly
12 13 14 15 16 17 18 19	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly? MS. PARFITT: Objection. Form. A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is. Q You do understand that they cite the most recent	12 13 14 15 16 17 18 19	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things.
12 13 14 15 16 17 18 19 20	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly? MS. PARFITT: Objection. Form. A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is. Q You do understand that they cite the most recent meta-analysis on the topic of talc and ovarian	12 13 14 15 16 17 18 19 20	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things. So I can't imagine that they are on a monthly basis reviewing absolutely everything. There is no clarity here about what they are and are not
12 13 14 15 16 17 18 19 20 21	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly? MS. PARFITT: Objection. Form. A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is. Q You do understand that they cite the most recent meta-analysis on the topic of talc and ovarian cancer, correct?	12 13 14 15 16 17 18 19 20 21	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things. So I can't imagine that they are on a monthly basis reviewing absolutely everything. There is no clarity here about what they are and are not considering.
12 13 14 15 16 17 18 19 20 21 22	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not the summary is reviewed regularly? MS. PARFITT: Objection. Form. A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is. Q You do understand that they cite the most recent meta-analysis on the topic of talc and ovarian	12 13 14 15 16 17 18 19 20 21 22	articles. They don't describe, you know, really any process for identification of those. You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things. So I can't imagine that they are on a monthly basis reviewing absolutely everything. There is no clarity here about what they are and are not

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Page 100 1 Do you see that? 2 A I do. Q As you scroll through that, do you see any reference to talc? 5 A I do not. Q Do you think the WCRF is wrong not to list talc 7 here? 8 MS. PARFITT: Objection to form. 9 Q Yes or no? 10 MS. PARFITT: Objection to form. 11 A I believe that this is incomplete. Q Incomplete because talc is not listed? 12 13 MS. PARFITT: Objection. Misstates her 14 testimony. 15 A I believe that I am, as I stated with the NCI's, 16 I'm unaware how they did this review and how they 17 came to the conclusions and decided what to 18 include and what not to include. 19 Q Finally, I know that you are currently in Indiana, 20 correct? 21 A Yes. 22 O You were aware that Indiana is a member of the 23 NCCN? 24 A They very recently became a member, yes. 25 Q And that's a big deal? Page 101 MS. PARFITT: Objection to form. 1 2 A The NCCN guidelines do direct really cancer 3 treatment and -- more so cancer treatment, but 4 also cancer diagnosis, yes. 5 Q The NCCN is a respected cancer organization, A NCCN, yes. It's a network of multiple organizations, yes. Q That is respected, correct? 10 A For, yeah, for clinical purposes. Yes. 11 Q Are you aware that the NCCN includes in its 12 guidelines a discussion of risk factors for ovarian cancer? 13 14 A I'm not aware of that, no. 15 Q Are you aware that the NCCN guidelines currently 16 state that talc has not been conclusively 17 associated with ovarian cancer?

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- and Phung not. I don't know.
- 2 Q You understand the NCI PDQ is not a document akin
- 3 to the litigation report that you offered that is
- 4 sixty pages or forty pages long?
- 5 You understand that, correct?
- 6 MS. PARFITT: Objection. Form.
- 7 A I'm well aware that this document is really put
- 8 out for the general public versus litigation
- 9 versus the scientific community.
- 10 Q And this version that we are looking at is a
- version for health care professionals, correct?
- 12 MS. PARFITT: Objection.
- 13 A I believe it is. I believe they may have a
- 4 public-facing one, which is how -- yeah, go to the
- patient version. So I'm clear on that. That
- might be interesting to review.
- 17 Again, this is not necessarily where
- 18 scientists go for the latest and the greatest data
- 19 or physicians even for that matter.
- 20 Q Just the AACR?
- 21 MS. PARFITT: Objection.
- 22 A No. We don't go to the AACR either.
- 23 Q Only the AACR links to the PDQ.
- 24 A Oh, they may, yes, for reasons unknown.
- 25 Q And Karmanos links to the PDQ?
- Page 99
- 1 A Correct. I believe they both do because this is a
- 2 source of national information, yes.
- 3 But the methodology behind this is still not
- 4 clear.
- 5 Q And I see from your C.V. that you are also
- 6 associated with the World Cancer Research Fund,
- 7 correct?
- 8 A I have reviewed a grant for them once or twice in
- 9 the past.
- 10 Q Are you aware that the World Cancer Research Fund
- 11 puts out a public-facing page for patients on
- 12 ovarian cancer?
- 13 A I am not.
- 14 Q I will mark this as Exhibit Number 10.
- 15 (EXHIBIT NUMBER 10 WAS MARKED FOR
- 16 IDENTIFICATION.)
- 17 Q Do you see the WCRF puts out a page titled Ovarian
- 18 Cancer, correct?
- 19 A Correct.
- 20 Q You can see here that they have a section on "What
- 21 causes ovarian cancer? Correct?
- 22 A Correct.
- 23 Q We see here there is, if you flip, there is one --
- 24 flip over from the first to second page.
- 25 There are also other causes.

- 18 A I'm not aware of that.
- 19 MS. PARFITT: Objection.
- 20 Q Would you disagree with the NCCN as well?
- 21 MS. PARFITT: Objection to form.
- 22 A Again, I don't know how the NCCN comes to this
- 23 sort of conclusion. If they have an actual, like
- 24 they do for treatment where they have a protocol
- in place and they have, you know, clearly stated

Page 102 1 methodology for what data they include and 2 exclude. 3 I don't know how the NCCN guidelines are for, 4 you know, something like risk factors how they 5 develop their opinions and their statements there. 6 So I really can't comment on it. 7 Q Have you talked with anybody at Indiana about talc 8 and ovarian cancer? 1 these. 2 Reviewed is perhaps a bit of a stronger statement. 4 Q Let me see if I can short circuit this. 5 Are the materials that you intend to rely in your opinions in this litigation the material in your literature cited list? 8 A Correct. What I relied on is in the literaty	Page 104
2 exclude. 3 I don't know how the NCCN guidelines are for, 4 you know, something like risk factors how they 5 develop their opinions and their statements there. 6 So I really can't comment on it. 7 Q Have you talked with anybody at Indiana about talc 2 Reviewed is perhaps a bit of a stronger statement. 4 Q Let me see if I can short circuit this. 5 Are the materials that you intend to rely for your opinions in this litigation the material in your literature cited list?	
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5 develop their opinions and their statements there. 6 So I really can't comment on it. 7 Q Have you talked with anybody at Indiana about talc 7 Are the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation the materials that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to rely for your opinions in this litigation that you intend to your opinions in the you	
7 Q Have you talked with anybody at Indiana about talc 7 in your literature cited list?	y on
	erials
8 and ovarian cancer? 8 A Correct What I relied on is in the literate	
o and o anion content.	ure
9 A Outside of the conflict of interest office, no. I 9 cited list.	
did let my, the people who work for me and with me 10 Q Are there any things listed on this addition	onal
11 know where I was these last two days.	talk
12 Q Have you talked with a gynecologic oncologist in 12 to the jury about in offering your opinions	
13 Indiana who is on the NCCN panel about talc and 13 this case?	
14 ovarian cancer? 14 MS. PARFITT: Objection to the form	n.
15 A No, I have not. 15 A So my understanding is between now and	l if this
16 Q Do you know who she is? 16 does go to a jury trial I have the ability to	
17 A I can think of a couple. Is it Lisa Landrum? 17 review more data, whether it's from peer r	eviewed
18 Q I don't think so. I'm asking if you know. 18 literature that is just newly published, when	ether
19 A No. I'm not aware who the, who the GYN oncologist 19 it's things that we request from you, like, y	/ou
20 at I.U. is who represents us, meaning I.U., on the 20 know, defense documents.	
21 NCCN. 21 As well as, I could go back to some of	this
22 I'm fairly new to Indiana. My understanding 22 and rely on this for my testimony in court.	That
23 is Indiana is also recent, we are new to the NCCN 23 is my understanding.	
24 as well within the time that I have been there. 24 So potentially, yes, I may go back to so	ome of
25 Q Does 2022 sound right? 25 these, but I can't say. I mean, this is anoth	er
Page 103	Page 105
1 A Yes. I started in September of 2022. 1 143 items. I can't say specifically which of	ones I
2 Q I will go back to your expert report. Okay? 2 will pull out and rely on at a later date.	
3 A Okay. 3 Q Okay. So just to tie that up. For purpose	s of
4 Q We touched upon this earlier. Your report 4 today, the opinions that you have to share	with me
5 includes a set of literature cited, correct? 5 are based upon the literature cited list, is the	nat
6 A Correct. 6 fair?	
7 Q Then a set of additional materials considered, 7 A In my report, yes.	
8 correct? 8 Q As we sit here today, you have not forme	d any
9 A I believe that the additional materials considered 9 additional opinions, you are not relying or	ı these
10 is in a drop box. 10 additional materials considered, is that fair	r?
11 Q Okay. Let me clarify here for you. 11 MS. PARFITT: Objection to the form	n.
12 Let's go to your report and look at 12 A I believe that is fair, yes.	
13 Appendix B. That is toward the end of the packet. 13 Q Okay. Then finally to really try to wrap	this up,
14 A Yes. 14 in addition to the literature cited, the AMC	CL,
15 Q So this list is different than your citations in	ve
16 your report? 16 your counsel this morning referenced the f	act that
17 A Yes, that is correct. 17 a set of materials were shared with us via	a drop
18 Q Have you reviewed, and do you rely upon all of the lox.	
19 items listed on the Additional Materials 19 Do you understand that to be true?	
20 Considered list? 20 A I understand that to be true, yes.	
21 Let me split that in separate questions. 21 Q Do you understand that that set of materi	als is
22 A Okay. 22 this AMCL set, or do you think that is a w	hole
23 Q Have you reviewed all of the items listed on the 23 other set?	

Page 106		Page 108
A I've not cross referenced anything though.	1	Q Are you an exposure scientist?
2 Q Understood.	2	A No.
3 MS. PARFITT: It is eleven. Do we want to	3	Q Are you a pathologist?
4 take a quick break?	4	A No. But I have long-term collaborations with
5 MR. JAMES: It has been another hour.	5	pathologists and to the extent that, you know, my
6 Sure.	6	bachelor's of science was in biology, so I have
7 (OFF RECORD AT 11:11 A.M.)	7	had some exposure to some of the other fields you
8 AT THIS TIME A SHORT RECESS WAS HELD OFF	8	mentioned.
9 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	9	As well as I spent a number of years with
10 WERE HAD:)	10	NIEHS, National Institute of Environmental Healt
11 (ON RECORD AT 11:19 A.M.)	11	Sciences funded center at Wayne State that focuse
12 BY MR. JAMES:	12	on environmental health and toxicology issues.
13 Q Dr. Cote, just to clarify a point earlier, in	13	So I have had a lot of exposure to it
reference to a drop box of materials that has been	14	
15 shared with me, are you prepared today to offer	15	that because I know true experts in that area.
any opinions on materials in that drop box that	16	
are not listed in your literature cited list?		A No.
18 A No.	18	Q You are not a gynecologic pathologist either,
19 Q If you do form additional opinions beyond what is	19	correct?
20 disclosed today in your report, will you let your	20	A Correct.
21 counsel know that?	21	Q Do you recognize gynecologic pathology as a
22 A Yes.	22	special expertise of pathology?
23 MR. JAMES: And then you and I and others	23	
will have a discussion about what that means.	24	is available at some, but not all, cancer centers,
25 Okay?	25	medical centers.
Page 107		Page 109
1 MS. PARFITT: Sure.	1	Q Have you ever talked with a gynecologic
2 MR. JAMES: For the record, that was	2	pathologist about the talc and ovarian cancer
3 directed towards Michelle.	3	hypothesis?
4 Q Were you ever a genetic counselor?	4	A No, I've not.
5 A No.	5	Q Do you agree that for considering the relevant
6 Q Do you have any expertise in mineralogy or mineral	6	
7 characterization?	_ ا	pathology evidence to the talc ovarian cancer
, characterization:	7	hypothesis that the expertise of a gynecologic
8 A No.	8	
8 A No.		hypothesis that the expertise of a gynecologic
8 A No.	8	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form.
8 A No.9 Q Are you a mineral scientist?	8	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form.
8 A No.9 Q Are you a mineral scientist?10 A No.	8 9 10	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of that
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 	8 9 10 11	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of the they must have that subspecialty to be able to
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 	8 9 10 11 12	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of that they must have that subspecialty to be able to comment on literature on this case? I'm not sure
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 	8 9 10 11 12 13	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of the they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to.
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 	8 9 10 11 12 13 14	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of the they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to. Can you rephrase the question?
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 	8 9 10 11 12 13 14 15	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of that they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to. Can you rephrase the question? Q Have you reviewed any reports or opinions from
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 	8 9 10 11 12 13 14 15 16	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of the they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to. Can you rephrase the question? Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 	8 9 10 11 12 13 14 15 16 17	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of that they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to. Can you rephrase the question? Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case? A Not that I'm aware of, no. Reports would be
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos? 19 A No. 	8 9 10 11 12 13 14 15 16 17 18	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of the they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to. Can you rephrase the question? Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?
 8 A No. 9 Q Are you a mineral scientist? 10 A No. 11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos? 19 A No. 20 Q Do you have any expertise in geology or mining? 	8 9 10 11 12 13 14 15 16 17 18 19 20	hypothesis that the expertise of a gynecologic pathologist would be especially important? MS. PARFITT: Objection to form. A I'm not sure what you are meaning in terms of that they must have that subspecialty to be able to comment on literature on this case? I'm not sure what you are referring to. Can you rephrase the question? Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case? A Not that I'm aware of, no. Reports would be individual level patient reports. And that I have not reviewed.
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	Page 110		Page 112
1	A No, not that I'm aware of.	1	
2	Q You are not an oncologist, correct?	2	fragrances or heavy metals.
3	A Correct. I am not an oncologist.	3	Q Did you do a comprehensive review of the medical
4	Q You are not a cell biologist or cancer biologist,	4	and scientific literature on the alleged presence
5	correct?	5	of asbestos and related elements in talcum
6	A I am not trained in cancer biology, no. But I	6	powders?
7	spent about twenty years in the cancer biology, it	7	MS. PARFITT: Objection.
8	was not a department, but we were a training	8	A I did not do a review specifically of asbestos. I
9	faculty for cancer biology students.	9	certainly reviewed comprehensive reports by, for
10	So I do feel like I have a good, but perhaps	10	example, IARC that included asbestos as their main
11	not expert grasp of cancer biology.	11	exposure of interest.
12	Q And we talked earlier today about the in vitro	12	Q Just to be more precise, did you do a
13	studies, correct?	13	comprehensive review of evidence related to the
14	A Correct.	14	alleged presence of asbestos in talcum powders?
15	Q And your testimony on that from this morning	15	A No, I did not do a comprehensive systematic
16	remains?	16	review.
17	A Correct. I do not do in vitro work in my own	17	Q Did you do a comprehensive review of the alleged
18	laboratory.	18	presence of fibrous talc in talcum powders?
19	Q Do you agree that prior to offering an expert	19	MS. PARFITT: Objection.
20	opinion on a particular topic that an expert	20	A Again, I read a lot of literature about fibrous
21	should be expected to conduct a comprehensive	21	talc. But I did not do a comprehensive systematic
22	review of the evidence on that topic?	22	review like I did for the epidemiologic studies.
23	MS. PARFITT: Objection. Form.	23	Q And for the epidemiologic studies on talc and
24	A Can you restate that question?	24	ovarian cancer, correct?
25	Q Sure. As a scientist like yourself,	25	A Yes. It was talc as a whole. It was not the
23	Q Suite. As a scientist like yoursell,	23	A Tes. It was tale as a whole. It was not the
	Page 111		Page 113
1	methodologically before offering an opinion on a	1	components. It was whatever was in the bottles or
2	methodologically before offering an opinion on a specific topic, do you agree that you should do a	2	components. It was whatever was in the bottles or containers of talc that the women were using.
2 3	methodologically before offering an opinion on a specific topic, do you agree that you should do a comprehensive review of the medical and scientific	2 3	components. It was whatever was in the bottles or containers of talc that the women were using. Q Did you do a comprehensive review of the actual
2 3 4	methodologically before offering an opinion on a specific topic, do you agree that you should do a comprehensive review of the medical and scientific literature on that topic?	2 3 4	components. It was whatever was in the bottles or containers of talc that the women were using. Q Did you do a comprehensive review of the actual underlying articles on the alleged association or
2 3 4 5	methodologically before offering an opinion on a specific topic, do you agree that you should do a comprehensive review of the medical and scientific literature on that topic? A I agree that a comprehensive review should be	2 3 4 5	components. It was whatever was in the bottles or containers of talc that the women were using. Q Did you do a comprehensive review of the actual underlying articles on the alleged association or relationship between as
2 3 4	methodologically before offering an opinion on a specific topic, do you agree that you should do a comprehensive review of the medical and scientific literature on that topic? A I agree that a comprehensive review should be undertaken before entering an opinion, yes.	2 3 4	components. It was whatever was in the bottles or containers of talc that the women were using. Q Did you do a comprehensive review of the actual underlying articles on the alleged association or relationship between as
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	D 114			D 116
1	Page 114 was certainly included as, you know, the more	1		Page 116 done a systematic review that asbestos has been
2	primary authors of that paper, Schildkraut and	2		named as a Group 1 carcinogen by IARC for well
3	probably Moorman. I'm not recalling who the	3		over a decade now. I think that there is evidence
4	second author on the paper was, but those are	4		that also points towards talcum powder contains
5	usually kind of the three who do the first draft	5		asbestos or fibrous talc, and that could be a
6	and a lot more of the heavy lifting.	6		causal agent for ovarian cancer. Yes.
7	I felt like based on the epidemiologic	7		Again, you agree you did not systematically or
8	evidence that there was a consistent association.	8	_	comprehensively look at the evidence on the
9	And by consistency I mean the point estimates for,			presence of asbestos in talcum powders, correct?
10	you know, the different here it was mostly case	10		MS. PARFITT: Objection. Asked and
11	control studies at the time were consistent	11		answered.
12	across multiple populations over the last, you	12	\circ	Is that correct?
13	know, thirty or forty decades across the globe.	13	_	I did not do a systematic review specifically
14	So I felt like there was really strong	14		looking at asbestos and the association with
15	epidemiologic evidence that suggested an	15		ovarian cancer.
16	association.	16		On Page 11 of your report, can you turn to it?
17	In terms of causation, I didn't form any real	17		Yes.
18	opinion of causation until I started this work,	18		Under the Other Substances subheading in the
19	like, in late fall of this year.	19		second sentence you say, "In addition to platy
20	Q Okay. Given that, then prior to your involvement			tale, talcum powder often contains asbestos and
21	in this litigation, is it correct that you have	21		almost always contains talc fibers."
22	not expressed publicly or to professional	22		Do you see that?
23	colleagues that you consider talc to be a cause of	23	Δ	Yes. Correct.
24	ovarian cancer?	24		Did you do a systematic review to support that
25	MS. PARFITT: Objection. Form.	25		opinion?
	Tibilitati i oojootioni i oimi			opinion.
	Dogo 115			Page 117
1	Page 115 A Correct There would be no place that Lever	1		Page 117 MS_PARFITT: Objection Form
1	A Correct. There would be no place that I ever	1 2	A	MS. PARFITT: Objection. Form.
2	A Correct. There would be no place that I ever would have stated that talc is a cause of ovarian	2		MS. PARFITT: Objection. Form. No. That opinion was supported by the Longo and
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	Page 118		Page 120
1	Requirements Under the Toxic Substances Control	1	results of talcum powder products from 1957 to
2	Act', published July 25, 2023, recognizes the	2	1992?
3	co-occurrence of asbestos and talc as such: 'EPA	3	MS. PARFITT: Objection to the form of the
4	maintains that talc and vermiculite are some	4	question.
5	examples of the bulk commodities that may contain	5	A I have no idea what types of internal testing was
6	asbestos as an impurity."	6	done outside of what I saw in that report.
7	So, you know, I think I use there if I'm	7	Q As a scientist are you intending to offer an
8	counting correctly, one, two, three, four	8	opinion that talcum powders often contain
9	different sources from very different	9	asbestos?
10	organizations or people.	10	Is that an opinion that you are intending to
11 (O Does the EPA document that you cite support the	11	offer?
12	proposition that talcum powders often contain	12	And are these the lines of evidence that you
13	asbestos? Yes or no?	13	intend to cite to support that?
14 A	A I don't know. I would have look at that full	14	MS. PARFITT: Objection. Asked and
15	document. I have just quoted that they maintain	15	answered.
16	that talc and vermiculite are some examples of	16	A I intend to state what I have listed here in my
17	bulk commodities that may contain asbestos.	17	expert report, that there have been various
18 Ç	Q Does even that sentence talk about talcum powders?	18	individuals and agencies who have found at various
19	It talks about talc as a bulk commodity,	19	points in time over the last five decades,
20	correct?	20	including the FDA, that there is asbestos and/or
21 A	A It does, yes.	21	talc fibers contained in talcum powder.
22 Ç	The FDA letter, do you understand that the FDA	22	Q And I'm focused on the word "often." You are the
23	testing you cite pertains to a single bottle,	23	one in your expert report using the word "often."
24	correct?	24	Do you see that?
25	MS. PARFITT: Objection. Form.	25	A Yes.
	Page 119		Page 121
1	You may answer.	1	
1	A Correct. But my understanding is that the FDA		A Yes.
3	does not test every single bottle. It tests a	3	Q that talcum powders often contain asbestos? I
4	subset.	4	that your opinion?
	Q But does the FDA testing support the proposition		MS. PARFITT: Asked and answered.
6	that talcum powder often contains asbestos? Yes		A Based on data that has, you know, we have been
7	or no?	7	found or has been provided, yes, I stand by often.
8	MS. PARFITT: Objection.	8	And that right here is based on Longo and
	A I do not know.	9	Rigler stating that sixty-eight percent of the
1	Q The internal testing says in your sentence that	10	samples contained asbestos and ninety-eight
11	testing was done sporadically.	11	percent of the samples contained fibrous talc.
12	Does the internal testing support the opinion	12	I would consider that often.
13	that talcum powder often contains asbestos?	13	Q You would agree you don't have any expertise in
	A I would have to go back to that. That is the	14	mineralogy or testing for asbestos, correct?
15	Hopkins document, I believe.	15	MS. PARFITT: Objection.
1	Q Did you look at any actual testing documents?	16	A I would agree I don't have that expertise, but I
	A I looked at a spreadsheet.	17	can read a lab report.
	Q A spreadsheet? A Yes.	18 19	Q You can read? A Yes.
	1 103.	20	
19 A	Did you look at actual testing regulte?		
19 A 20 C	Q Did you look at actual testing results?		MC DADEITT: Argumentative
19 A 20 C 21 A	A Can you clarify? I am not sure what you are	21	MS. PARFITT: Argumentative.
19 A 20 C 21 A 22	A Can you clarify? I am not sure what you are meaning by that.	21 22	If you have a question, ask it.
19 A 20 C 21 A 22 23	A Can you clarify? I am not sure what you are meaning by that. My understanding looking at that spreadsheet	21 22 23	If you have a question, ask it. Q Can the jury read?
19 A 20 C 21 A 22 23 24	A Can you clarify? I am not sure what you are meaning by that.	21 22	If you have a question, ask it.

Page 122		Page 124
_	1	testing done by Johnson & Johnson.
		Q That was sorry.
	_	A That was my understanding of what Johnson &
	Ī .	Johnson had to offer. I am not aware of any other
	1	materials, but I'm happy to review them.
		Q And that was the spreadsheet selected for you by
		plaintiff's counsel?
		MS. PARFITT: Objection to form.
	_	A The spreadsheet was provided to me by counsel.
,		Yes.
		Q Do you know that there have been thousands of
	1	testing and testing documents done since the
	1	timeframe that you cite?
	1	MS. PARFITT: Objection to form.
• •		Q Here you refer to the 1950s.
		Are you aware that there have been thousands
		of tests performed on talcum powders during that
		time period?
•		MS. PARFITT: Objection to form.
		A I'm not aware of that. I'm aware of another that
	1	I list here in my report. If you want to go back
		to my expert testimony to that second paragraph,
		it was a study done in Malaysia by Almugren.
-	1	They tested four different types of talcum
	25	powder products currently available. One was
Page 123		Page 125
-	1	Johnson's Baby Powder. They noted that all of
A I don't believe it is.	2	them contained nickel, arsenic, and lead. They
Q Is this peer reviewed?	3	also talked about, you know, the prior studies in
	4	this area.
	5	So there is I'm aware that there has been
this.	6	other testing done. I don't have it at my
Q Had you ever heard of Longo or Rigler before you	7	
		fingertips in terms of the thousands of documents
became a litigation expert?	8	you have been talking about.
became a litigation expert? A No.	8 9	you have been talking about.
A No.	1	you have been talking about. I'm aware there has been further testing done
A No. Q Do you know how many times they have testified for	9	you have been talking about. I'm aware there has been further testing done looking at different constituents of Johnson's
A No.Q Do you know how many times they have testified for plaintiffs in the talc litigation?	9 10	you have been talking about. I'm aware there has been further testing done looking at different constituents of Johnson's Baby Powder.
A No. Q Do you know how many times they have testified for	9 10 11	you have been talking about. I'm aware there has been further testing done looking at different constituents of Johnson's
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	Q Is this peer reviewed?MS. PARFITT: Objection.A I'm unaware if they have peer reviewed any of	jury is. I will probably not administer a reading test to them. Q The Longo report that you cite is a litigation byproduct, correct? MS. PARFITT: Objection to form. A It's my understanding that, yes, it's a litigation byproduct. Q And did you request access to Longo's testing? A Yes, I believe I did. Q Did you read the entirety of Longo's report? A I scanned the entirety of that report, yes. I mean, it's the MAC report. That is the name of the company, I believe, that they work under. Q Have you reviewed all of Longo's publications and testing on talcum powders, or is this all you have reviewed from Longo? MS. PARFITT: Objection to the question. I'm not sure I know what you are asking. MR. JAMES: I think you know. That is fine. Q Is this all you have reviewed from Longo? A Yes, this is what I have reviewed from Longo. Q And is this part of the published medical literature? Page 123 MS. PARFITT: Objection. A I don't believe it is. Q Is this peer reviewed? MS. PARFITT: Objection. A I'm unaware if they have peer reviewed any of this.

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1		Page 126 was Hopkins. It was the FDA. And it was kind of	1	Page 128
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$		the final ruling of the EPA.		on asbestos testing? A No.
3	0	Okay.	3	
4		To me that is four distinct pieces of evidence.	4	MS. PARFITT: Objection. A No, I have not.
5	А	Recognizing that I did not do a systematic review	5	Q Have you reviewed any documents that give context
6		and that this was not to build causation, this was	6	to the entries on the spreadsheet that you
7		just to look at biologic plausibility, I feel like	7	reviewed?
8		it was a sufficient read.	8	MS. PARFITT: Objection. Form.
9	0	Did you look at any other FDA testing?	9	A No, I have not. But I have reserved my right to
10	V	Do you know if the FDA has tested any other	10	review more after this deposition.
11		talcum powders?	11	_
12		MS. PARFITT: Objection to form.	12	claim that talcum powders have asbestos in them?
13	А	I have not looked at other talcum powders. I	13	A I'm sorry. Can you repeat that?
14	1 1	really just considered talcum powder as a whole.	14	Q Sure. I'm sorry.
15	O	I appreciate that. Again, you have in your expert	15	Did you comprehensively look for published
16	~	report the sentence that talcum powder often	16	literature on the topic of the presence of
17		contains asbestos.	17	asbestos in talcum powders?
18		I have asked you if you intend to offer that		A No. That would be looking at a systematic review
19		opinion. You are telling me yes. That is why I'm	19	of the components of talcum powder and I did not
20		asking what you have relied on.	20	do that.
21		So the sum total of what you have relied on		Q Do you have any familiarity of the specifications
22		to support that statement as a scientist is	22	for talcum powder products?
23		contained in this paragraph, is that correct?	23	MS. PARFITT: Objection to form.
24		MS. PARFITT: Objection. Misstates her	24	A No. I'm unaware of what the specifications are.
25		testimony. I think she just talked to you about	25	I assume you mean like purity or something along
		Page 127		Page 129
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	Page 130		Page 132
1	those areas?	1	an epidemiologic standpoint where people who are
2	A No. I believe currently that China is where much	2	using talcum powder of whatever brand or whatever
3	of it is sourced. That is a very large country	3	type, they don't know what is in that bottle.
4	that I have never visited. So I'm unaware of the	4	So when I am reviewing it, I'm reviewing talc
5	geology.	5	and everything that it contains. But the
6	Q Do you have any opinions on the amount of alleged	6	assumption is that there is not asbestos in that
7	asbestos in Johnson & Johnson's finished products?	7	talc.
8	A I am unaware of the amount of asbestos in Johnson	8	But the review is everything that is
9	& Johnson's finished products.	9	contained in that talc bottle.
10	But I would assume that any amount of	10	Q The body of literature on talcum powders and
11	asbestos is potentially carcinogenic.	11	ovarian cancer tests the hypothesis whatever is it
12	Q Do you have any expertise in exposure to asbestos	12	in?
13	in ambient air?	13	A Yes.
14	Is that something that you have ever looked	14	Q Is that fair?
15	at?	15	A All of the constituents that are in talc that
16	A No. I have not studied ambient air and asbestos	16	are in the bottle, let's just say, because they
17	exposure.	17	might be co-occurring with it. It might be
18	Q Do you have any expertise in exposures to asbestos	18	something that is intentionally added like
19	through other everyday life activities?	19	fragrances.
20	A No. I'm not aware. Although, I know asbestos is	20	It's everything within that bottle with talc
21	ubiquitous. It's almost everywhere.	21	being the primary component.
22	Q If there isn't asbestos in Johnson & Johnson	22	Q Have you ever conducted, outside of litigation, a
23	talcum powders do you still hold the opinion that	23	comprehensive review on the literature of asbestos
24	talcum powders are a general cause of ovarian	24	and ovarian cancer?
25	cancer?	25	MS. PARFITT: Objection. The question was
	Page 131		Page 133
1	A Yes, I do.	1	asked and answered.
2	Q Does it change your opinions in any way?	2	A No. I have never done a systematic review of
3	A No, it does not. When I started with, you know,		
4	11 10, 10 does not when I started with, you mis w,	3	asbestos and ovarian cancer.
1 .	my initial assumption in the report that I built	3 4	asbestos and ovarian cancer. Q Sitting here today, do you have the opinion that
5	-	ļ -	
	my initial assumption in the report that I built	4	Q Sitting here today, do you have the opinion that
5	my initial assumption in the report that I built on was that these were not asbestos containing.	4 5	Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer?
5 6	my initial assumption in the report that I built on was that these were not asbestos containing. So the conclusions in the report are with the	4 5 6	Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer?
5 6 7	my initial assumption in the report that I built on was that these were not asbestos containing. So the conclusions in the report are with the assumption, despite what I think was some evidence	4 5 6 7	 Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer? A So I did not do a causal analysis or I'm sorry a systematic review with a causal analysis for asbestos and ovarian cancer.
5 6 7 8	my initial assumption in the report that I built on was that these were not asbestos containing. So the conclusions in the report are with the assumption, despite what I think was some evidence that was kind of revealed as I reviewed, but the	4 5 6 7 8 9 10	 Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer? A So I did not do a causal analysis or I'm sorry a systematic review with a causal analysis for asbestos and ovarian cancer. I did it for talcum powder and specifically
5 6 7 8 9	my initial assumption in the report that I built on was that these were not asbestos containing. So the conclusions in the report are with the assumption, despite what I think was some evidence that was kind of revealed as I reviewed, but the assumption in my conclusions are that it is talcum	4 5 6 7 8 9 10 11	 Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer? A So I did not do a causal analysis or I'm sorry a systematic review with a causal analysis for asbestos and ovarian cancer.
5 6 7 8 9	my initial assumption in the report that I built on was that these were not asbestos containing. So the conclusions in the report are with the assumption, despite what I think was some evidence that was kind of revealed as I reviewed, but the assumption in my conclusions are that it is talcum powder that is free of asbestos.	4 5 6 7 8 9 10 11 12	 Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer? A So I did not do a causal analysis or I'm sorry a systematic review with a causal analysis for asbestos and ovarian cancer. I did it for talcum powder and specifically perineal use or genital use of talcum powder and ovarian cancer.
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	my initial assumption in the report that I built on was that these were not asbestos containing. So the conclusions in the report are with the assumption, despite what I think was some evidence that was kind of revealed as I reviewed, but the assumption in my conclusions are that it is talcum powder that is free of asbestos. Q Okay. I saw that. Let me clarify that. A Okay. Q Are your opinions predicated on the assumption that talcum powders are asbestos free? MS. PARFITT: Objection. Form. Misstates the testimony. A Yeah. Can you rephrase that? Q I'm asking you to tell me. Right. I think you just used the word "assumed." I saw that at one point in your report. Are you offering your opinions based on the assumption that talcum powders are asbestos free? MS. PARFITT: Objection. Form.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Sitting here today, do you have the opinion that asbestos is an established cause of ovarian cancer? A So I did not do a causal analysis or I'm sorry a systematic review with a causal analysis for asbestos and ovarian cancer. I did it for talcum powder and specifically perineal use or genital use of talcum powder and ovarian cancer. Q With respect to fibrous talc, you comment on that in your report, correct? A Yes. Q In your mind, do you distinguish fibrous talc from asbestiform talc? Are those two things the same or are those two things different? A Yes, I believe that fibrous talc, and this is coming right from Page 11, The Exposure: Talc. I say, you know, that talc is usually platy.

		Page 134		Page 136
1		That asbestiform refers to the pattern of the	1	Q Then also in this sentence you would say talc
2		growth, which is not to be confused with talc that	2	fibers are also interchangeable, correct?
3		separately contains asbestos.	3	A Yes.
4	Q		4	Q You cite the IARC Monograph from 2012 for the
5	A	• •	5	proposition that the term fibrous talc is
6		What I'm trying to grapple with is your use of the	l	classified by IARC as a Class 1 human carcinogen
7		terminology.	7	do you see that?
8	A	Yes.	8	A I'm not sure I do. Can you point to where that
9	Q	Okay. Do you think fibrous talc and asbestiform	9	is?
10		talc, are those two terms interchangeable in your	10	Q Yes. In the same paragraph about halfway up.
11		mind?	11	"Talc may also form fibers"
12	A	That is how I interpret it, yes. It has very	12	Do you see that?
13		little to do again, ultimately, I'm looking at	13	A Yes.
14		talc and all it contains is what the basis of the	14	Q Five lines up.
15		report is built on.	15	A Yes.
16	Q	Do you think fibrous talc, the term fibrous talc,	16	Q The next sentence says, "This type of talc,
17		and the term talc containing asbestiform fibers,	17	referred to as fibrous talc"
18		are they in your mind interchangeable?	18	A It says, "Talc may also form fibers that are
19		Do they mean the same thing?	19	asbestiform in habit, meaning they have greater
20	A	Yes.	20	strength, flexibility and durability. This type
21	Q	That is your understanding?	21	of talc, referred to as fibrous talc, has also
22	A	That those are two equivalent terms.	22	been classified by IARC as a Class 1 human
23	Q	To wrap this up, you use the term fibrous talc,	23	carcinogen."
24		the term asbestiform talc, and the term talc	24	So, yes, talc with fibers that are
25		containing asbestos fibers interchangeably?	25	asbestiform in habit is referred to as fibrous
		Page 135		Page 137
1	A	I'm not sure where I put each of those	1	talc based on this statement. And they are both
2		interchangeably in the report. I tended to if	2	Class 1 carcinogens.
3		I referred to them, I referred to them as the	3	Q Sitting here today, do you know if the term
4		authors of whatever literature referred to them.	4	"fibrous talc" is used anywhere in the IARC
5		But, yes, the asbestiform fibers is the same	5	Monograph?
6	_	as fibrous talc. And what was the third one?	6	MS. PARFITT: Objection. Form.
7	Q	ε	7	A Sitting here today, no, I do not know how they
8	A	Talc containing asbestos fibers. I don't know if	8	refer to it.
9		I used that in the report. I would have to see	9	Q Would it surprise you to learn that the term
10		how I referred to that.	10	"fibrous talc" is actually not contained in the
11		But the first two, the asbestiform fibers and	11	2012 Monogram?
12	0	fibrous tale are interchangeable to me.	12	MS. PARFITT: Objection to form.
	Ų	On Page 16, in the second paragraph at the end of that paragraph you say, "Therefore, both talc	l	A I'm not surprised by much of anything. So, no, it
11/			14 15	would not surprise me. Q Do you have any familiarity with the term cleavage
14		containing acheculturm tibers (1 a tale tibers)		Q Do you have any familiarity will the term cleavage
15		containing asbestiform fibers (i.e., talc fibers)		
15 16		and talc containing asbestos should be considered	16	fragment?
15 16 17		and talc containing asbestos should be considered carcinogenic"	16 17	fragment? A With respect to DNA analysis, that is my primary
15 16 17 18	A	and talc containing asbestos should be considered carcinogenic" Do you see that?	16 17 18	fragment? A With respect to DNA analysis, that is my primary go to, yes.
15 16 17 18 19	_	and talc containing asbestos should be considered carcinogenic" Do you see that? Yes.	16 17 18 19	fragment? A With respect to DNA analysis, that is my primary go to, yes. Q Understood. Do you have any familiarity with that
15 16 17 18 19 20	Q	and talc containing asbestos should be considered carcinogenic" Do you see that? Yes. That is where I pulled that term from.	16 17 18 19 20	fragment? A With respect to DNA analysis, that is my primary go to, yes. Q Understood. Do you have any familiarity with that term of art used in the context of mineralogy?
15 16 17 18 19 20 21	_	and talc containing asbestos should be considered carcinogenic" Do you see that? Yes. That is where I pulled that term from. That was from the IARC Monograph.	16 17 18 19	fragment? A With respect to DNA analysis, that is my primary go to, yes. Q Understood. Do you have any familiarity with that term of art used in the context of mineralogy? A No, I do not.
15 16 17 18 19 20	Q A	and talc containing asbestos should be considered carcinogenic" Do you see that? Yes. That is where I pulled that term from. That was from the IARC Monograph. You believe asbestiform talc, fibrous talc, and	16 17 18 19 20 21	fragment? A With respect to DNA analysis, that is my primary go to, yes. Q Understood. Do you have any familiarity with that term of art used in the context of mineralogy? A No, I do not. Q With respect to heavy metals, earlier today you
15 16 17 18 19 20 21 22	Q A	and talc containing asbestos should be considered carcinogenic" Do you see that? Yes. That is where I pulled that term from. That was from the IARC Monograph.	16 17 18 19 20 21 22	fragment? A With respect to DNA analysis, that is my primary go to, yes. Q Understood. Do you have any familiarity with that term of art used in the context of mineralogy? A No, I do not.
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	Page 138		Page 140
1	metals, the Pier deposition?	1	expertise is.
2	A Correct.	2	Q I was not meaning to suggest the broader topic.
3	Q Are there any other materials that you rely on for	3	This was specific to heavy metals.
4	the presence of heavy metals in talcum powders?	4	A Correct.
5	A No, I did not do a systematic review of talcum	5	Q You have reviewed a very limited set of materials
6	powder and heavy metals.	6	fair?
7	Q Was the Pier deposition given to you by counsel?	7	MS. PARFITT: Objection to form.
8	A Yes, it was.	8	A Yes, I did not do a comprehensive review or
9	Q And was the Almugren article given to you by	9	systematic review of heavy metals.
10	counsel?	10	Q Just like with asbestos, you didn't look at any
11	A No.	11	testing document on heavy metals?
12	Q Okay. Was that something that you found on you	r12	MS. PARFITT: Objection.
13	own?	13	A From what was in Pier, yes. Other than that, no.
14	A Yes.	14	Q Other than Pier, you have not looked at any
15	Q Did you read the entirety of the Pier deposition	15	testing document from Johnson & Johnson or the
16	or just sections?	16	defendants, correct?
17	A I did not read the entirety of it.	17	MS. PARFITT: Objection.
18	Q And did you read sections pertaining to heavy	18	A Correct. That was not the focus of this report at
19	metals?	19	all.
20	A Yes.	20	Q And are you aware there are specifications
21	Q Were those sections selected for you?	21	relevant to the presence of heavy metals in talcum
22	A No, they were not.	22	powders?
23	Q Did you ask for the Pier deposition?	23	MS. PARFITT: Objection. Vague.
24	A I asked for materials related to other components	24	A I'm aware that there are probably some sort of
25	or other things found.	25	standards or regulations in place for most
	Page 139		Page 141
1	Q You have the Pier deposition, correct?	1	cosmetic items.
	A Yes.	2	Q You did not review the specifications, is that
3	Q Did you get any other materials?	3	fair?
4	Did you get testimony or reports from Johnson		A Fair. No.
5	& Johnson witnesses?	5	Q Do you know if the talcum powders in the Almugren
6	A No, I do not believe I have.	6	article are distributed it the United States?
7	Q Did you get any materials or testimony or	7	Do you know if they were?
8	documents from Johnson & Johnson experts on the		-
9	issue of heavy metals in talcum powders?	9	Q Did you see that the article made reference to
10	A No. I do not believe I asked for any of that.	10	Malaysia?
11	That was really not the focus of my report.		A Yes. That is stated in the report.
12	Again, this is here for completeness' sake to	12	They were products currently available in
13	recognize that there are other components that are	13	Malaysia.
14	in these sorts of talcum powders. Whether they	14	
15	kind of co-occur naturally or whether they are	15	the presence of heavy metals in talcum powders
16	added afterwards for, for example, fragrance, it's	16	renders those powders carcinogenic?
		17	A I would have to look at the IARC documents that I
17	really just to describe in a more comprehensive		reviewed. I believe that they do have, they do
18	manner that there are other agents found within	18	
18 19	manner that there are other agents found within these bottles of talc.	19	have the first one is looking at arsenic,
18 19 20	manner that there are other agents found within these bottles of talc. Q Based on the limited set of materials that you	19 20	have the first one is looking at arsenic, metals, fibers, and dust. I say first one. That
18 19 20 21	manner that there are other agents found within these bottles of talc. Q Based on the limited set of materials that you have reviewed, correct?	19 20 21	have the first one is looking at arsenic, metals, fibers, and dust. I say first one. That is the 2012 one. That is the first one I
18 19 20 21 22	manner that there are other agents found within these bottles of talc. Q Based on the limited set of materials that you have reviewed, correct? MS. PARFITT: Objection to that question.	19 20	have the first one is looking at arsenic, metals, fibers, and dust. I say first one. That
18 19 20 21 22 23	manner that there are other agents found within these bottles of talc. Q Based on the limited set of materials that you have reviewed, correct? MS. PARFITT: Objection to that question. A I actually feel like I have reviewed a very large	19 20 21	have the first one is looking at arsenic, metals, fibers, and dust. I say first one. That is the 2012 one. That is the first one I
18 19 20 21 22	manner that there are other agents found within these bottles of talc. Q Based on the limited set of materials that you have reviewed, correct? MS. PARFITT: Objection to that question.	19 20 21 22	have the first one is looking at arsenic, metals, fibers, and dust. I say first one. That is the 2012 one. That is the first one I discussed after the Health Canada report on

	Page 142		Page 144
1	heavy metals renders talcum powders carcinogenic?	1	fragrances or fragrance chemicals?
2	Do you know sitting here?	2	MS. PARFITT: Objection to form.
3	MS. PARFITT: Objection to form.	3	A No, I am unaware how the fragrances were tested
4	A Sitting here right now off the top of my head, no.	4	for.
5	We can look at that because we have the	5	Again, almost anybody with a nose can smell
6	documentation here.	6	that they are highly fragranced products.
7	Q I didn't see in your report a claim that the IARC	7	Q Did you ask for the Crowley report?
8	Monograph supported the notion that heavy metals	8	A Not specifically. I asked for reports that may
9	in powders renders powders carcinogenic.	9	indicate the presence of other, as I think I
10	Did you make that claim in your report?	10	mentioned before, other components that might be
11	MS. PARFITT: Objection to the form.	11	included in a bottle of talc.
	A I don't make that claim in the report. I would	12	Q The only thing you were given was the Crowley
13	say I do note in here that the report, meaning the	13	report?
14	one published in 2012, focused on Group 1	14	A That is the only thing that I used that I have
15	carcinogens. Those that are viewed to be	15	cited here. I relied on that, to use your
16	carcinogenic in humans. That included arsenic,	16	terminology. There may be other things included
17	fibers, metals, and dust.	17	that I reviewed.
	Q That is also what you talked about earlier with	18	Q And then with respect to your opinions on the
19	regard to asbestos, correct?	19	relevance of these fragrance chemicals, I would
20	That is the monograph you looked at on	20 21	like to better understand if the opinion the
21	asbestos, correct?	22	summary that you have of the Crowley report from 11 to 12, do you see that?
2223	A It was that one, but it was also the 2010. And then there was an earlier one as well.	23	A Yes, I do.
		24	Q Are you simply noting what you are reading from
25	Q Okay. Are you aware of any study substantiating the theory that trace amounts of heavy metals	25	Crowley's report?
	Page 143		Page 145
1	cause ovarian cancer?	1	Are you offering these opinions as your
_			
2	MS. PARFITT: Objection to form.	2	own?
3	A I did not do a systematic review looking for	3	A I'm summarizing there what was in Crowley's
3 4	A I did not do a systematic review looking for articles, nor am I aware of any.	3	A I'm summarizing there what was in Crowley's report.
3 4 5 (A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley	3 4 5	A I'm summarizing there what was in Crowley's report.Q In that last sentence you say, "He concluded that
3 4 5 6	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct?	3 4 5 6	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties
3 4 5 6 7 4	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes.	3 4 5 6 7	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic."
3 4 5 6 7 4 8 6	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report	3 4 5 6 7 8	A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that?
3 4 5 6 7 4 8 9	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and	3 4 5 6 7 8 9	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement.
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3 4 5 6 7 8 9 10 11 12 4	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite.	3 4 5 6 7 8 9 10 11 12	A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct.
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3 4 5 6 7 4 8 9 10 11 12 4 13 14	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite. But without meaning to be flippant, anyone who has smelled Johnson & Johnson Baby Powder and	3 4 5 6 7 8 9 10 11 12 13 14	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct. Q Have you, as a scientist, independently reached those conclusions?
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3 4 5 6 6 7 4 8 6 9 10 11 12 4 13 14 15 16 17 18	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite. But without meaning to be flippant, anyone who has smelled Johnson & Johnson Baby Powder and Shower to Shower can smell the fragrance in those. It's no surprise to me. To say there were X number of fragrance chemicals, you know, 175 between those two	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct. Q Have you, as a scientist, independently reached those conclusions? A Again, I did not perform a systematic review of fragrances and whether or not they contained inflammatory properties and the carcinogenic potential.
3 4 5 6 6 7 4 8 6 9 10 11 12 13 114 115 116 117 118 119	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite. But without meaning to be flippant, anyone who has smelled Johnson & Johnson Baby Powder and Shower to Shower can smell the fragrance in those. It's no surprise to me. To say there were X number of fragrance chemicals, you know, 175 between those two products, yeah, that is the only source I have for	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct. Q Have you, as a scientist, independently reached those conclusions? A Again, I did not perform a systematic review of fragrances and whether or not they contained inflammatory properties and the carcinogenic potential. I do not conclude that. I clearly state that
3 4 5 6 7 8 9 10 11 12 4 15 16 17 18 19 20	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite. But without meaning to be flippant, anyone who has smelled Johnson & Johnson Baby Powder and Shower to Shower can smell the fragrance in those. It's no surprise to me. To say there were X number of fragrance chemicals, you know, 175 between those two products, yeah, that is the only source I have for those numbers.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct. Q Have you, as a scientist, independently reached those conclusions? A Again, I did not perform a systematic review of fragrances and whether or not they contained inflammatory properties and the carcinogenic potential. I do not conclude that. I clearly state that that is what he concluded and I cited that.
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3 4 5 6 7 8 9 10 11 12 4 15 16 17 18 19 20 21 22	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite. But without meaning to be flippant, anyone who has smelled Johnson & Johnson Baby Powder and Shower to Shower can smell the fragrance in those. It's no surprise to me. To say there were X number of fragrance chemicals, you know, 175 between those two products, yeah, that is the only source I have for those numbers. But the idea that these are highly scented products, anybody could tell that still has a	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct. Q Have you, as a scientist, independently reached those conclusions? A Again, I did not perform a systematic review of fragrances and whether or not they contained inflammatory properties and the carcinogenic potential. I do not conclude that. I clearly state that that is what he concluded and I cited that. Q In the sentences above when you are reporting classifications from the EPA and the IARC, you are
3 4 5 6 6 7 4 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A I did not do a systematic review looking for articles, nor am I aware of any. Q With regards to fragrances, you cite the Crowley report, correct? A Yes. Q Is the sole basis for the passage of your report talking about the presence of fragrances and powders, is the sole basis for that passage in Crowley's report? A I believe that is the main one that I cite. But without meaning to be flippant, anyone who has smelled Johnson & Johnson Baby Powder and Shower to Shower can smell the fragrance in those. It's no surprise to me. To say there were X number of fragrance chemicals, you know, 175 between those two products, yeah, that is the only source I have for those numbers. But the idea that these are highly scented	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A I'm summarizing there what was in Crowley's report. Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic." Do you see that? A Yes, I see that statement. Q There you are referring to Dr. Crowley's conclusions, correct? A Correct. Q Have you, as a scientist, independently reached those conclusions? A Again, I did not perform a systematic review of fragrances and whether or not they contained inflammatory properties and the carcinogenic potential. I do not conclude that. I clearly state that that is what he concluded and I cited that. Q In the sentences above when you are reporting

	P 146		D 140
1	Page 146 MS. PARFITT: Objection to the form.	1	Page 148 Do you see that?
2	Q You did not independently look at those	2	A Yes.
3	classifications, correct?	3	Q Did you write these sections?
4	A Correct. I did not go back to confirm that they	4	A I did. Well, before I say that, you see that I do
5	were in those categories. That is correct.	5	have big sections quoted in there. Those were
6	Q Do you know if Dr. Crowley considered dosage is	n 6	direct quotes that I pulled off the website.
7	his report?	7	Yes, the rest of this I wrote.
8	Did you look at that?	8	Q On Page 3 of your report you mention that the
9	MS. PARFITT: Objection. Form.	9	mandate that you had in this case was to comment
10	A Dosage of what?	10	on general cause, correct?
11	Q Let me ask a different question.	11	A Yes.
12	A Okay.	12	Q Do these two sections on the discontinuation and
13	Q Do you recall reading if he did any sort of risk	13	the "Facts About Talc" and Cancer-related
14	assessment?	14	Lawsuits, do those fit within your mandate?
15	Do you recall reading that in his report?	15	A Well, let's take them section by section.
16	A A risk assessment associated with fragrance and	16	Which one do you want to talk about first?
17	ovarian cancer?	17	Q Sure. Are you intending to offer expert opinions
18	Q Correct.	18	on the reason Johnson & Johnson discontinued
19	A I do not recall that in that report.	19	talcum powders?
20	Q Are you aware of any studies or data showing that		A No, I'm not going to offer an expert opinion on
21	any of these fragrance chemicals can cause cancer		the reasons why Johnson & Johnson did. I don't
22	A No, I did not do a comprehensive review of that.	22	know what those reasons are.
23	I believe this report, similar to my report here,	23	But I am offering just kind of evidence that
24	was kind of also entered under oath. It was part	24	Johnson & Johnson did recall about 33,000 bottles
25	of a deposition or an expert report.	25	of baby powder in October of 2019 after the FDA
1	Page 147		Page 149
1			
_	Q Understood. With respect to fragrances, to the	1	found asbestos in a bottle of it.
2	extent I've not asked this, did you ask to see if	2	Also, then the statement that was released by
3	extent I've not asked this, did you ask to see if any experts for the defense have commented on or	2 3	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc
3 4	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports?	2 3 4	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website.
3 4 5	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the	2 3 4 5	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson
3 4 5 6	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the defense.	2 3 4 5 6	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate
3 4 5 6 7	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the defense. Q I asked this question earlier about asbestos.	2 3 4 5 6 7	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations?
3 4 5 6 7 8	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the defense. Q I asked this question earlier about asbestos. With respect to all of these other components	2 3 4 5 6 7 8	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations? A No. I don't believe that I have any intention of
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3 4 5 6 7 8 9 10 11 12	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the defense. Q I asked this question earlier about asbestos. With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion? MS. PARFITT: Objection to form.	2 3 4 5 6 7 8 9 10 11 12	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations? A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in
3 4 5 6 7 8 9 10 11 12 13	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the defense. Q I asked this question earlier about asbestos. With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion? MS. PARFITT: Objection to form. A No. My causation opinion, again, is that talcum	2 3 4 5 6 7 8 9 10 11 12 13	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations? A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in October 2018.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports? A Again, I did not request anything from the defense. Q I asked this question earlier about asbestos. With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion? MS. PARFITT: Objection to form. A No. My causation opinion, again, is that talcum powder whatever the components are within the bottles, or bottles more accurately, that are used by a person across their lifespan. It is not any one particular component. Q Let's move on to Page 12 and 13 of your report. A Yes. Q You have included on this page two sections of your report. One is titled Johnson & Johnson Discontinuation of Talc-based Johnson's Baby	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website. Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations? A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in October 2018. Q Is it your opinion or your guess, or how would you characterize it as to why Johnson & Johnson discontinued talcum powders? MS. PARFITT: Objection to form. A When you say they discontinued talcum powders, have they, I mean, they pulled them off their shelves in response to this. I don't have any idea as to why they would discontinue sales of talc-based powder. I don't study market share or any of that.

	Page 150		Page 152
1	information on its website?	1	A I am not debating as to whether there have been
2	MS. PARFITT: Objection to form.	2	thousands of tests. I don't have that data
3	A I'm not rendering an opinion at all about whether	3	available.
4	it's truthful information or not.	4	I am debating the statement that it says "Our
5	Q Are you intending to offer expert opinions on the	5	talc has also been tested and confirmed to be
6	psychology of consumers to be able to read and	6	asbestos free" simply because that directly
7	decipher information available on these websites?	7	contradicts the U.S. FDA report and that, you
8	A What section are you referring to?	8	know, the company then pulled these from the
9	Q I'm just asking you in general.	9	shelf.
10	Do you have opinions on the psychology of	10	Q Does Johnson & Johnson address the FDA testing on
11	consumers to read information posted on these	11	its website?
12	websites?	12	A I do not know if they address that directly on the
13	MS. PARFITT: Objection. Form.	13	website. I am assuming that they do because, as
14	A Yeah. No. I have no opinion on the psychology of	14	you mention, they have or as I mentioned
15	consumers, that was the first part.	15	here over 3,200 documents. So I do think that
16	And the second part I think I state in this	16	that is among it.
17	part Number 3, Facts About Talc, you know, when,	17	Q Do you dispute that Johnson & Johnson's talc comes
18	again, I was kind of driven to the website looking	18	from ore sources confirmed to meet stringent
19	after the FDA safety report was what got me to	19	specifications.
20	the Johnson & Johnson Facts About Talc.	20	Do you dispute that?
21	In an effort to do just a good review of the	21	MS. PARFITT: Objection. Form.
22	background of again, I'm new to this field.	22	A I have no idea where these sources are, outside
23	I'm certainly new to the litigation world, what	23	of, like I said, most currently I believe it's
24	was actually going on with it, that drove me to	24	sourced in China.
25	this website.	25	Q Do you dispute that talcum powders are routinely
	Page 151		Page 153
1	And, you know, I was, indeed, very surprised	1	tested?
2	to see under the Review of Evidence tab there was	2	This is in the third sentence.
3	a link to a drop box that contained over 3,200	3	MS. PARFITT: Objection. Asked and
4	different documents at that time.	4	answered.
5	And I do offer the opinion that I think it's,	5	A Where is this?
6	that is a lot of documents to sort through for	6	Q This is a block quote that you included.
7	anybody, particularly somebody who does not have	7	It says, "Not only is our talc routinely
8	any training in either science or in the legal	8	tested"
9	system.	9	Do you dispute that the talc is routinely
10	Q Do you understand that those documents are posted	10	tested?
11	and available to the general public, media, other	11	A I don't have knowledge of whether or not it is
12	scientists?	12	routinely tested.
13	A Yes, I understand that.	13	Q And, again, you just agreed with me that Johnson &
14	Q Are you claiming that there is information or	14	Johnson does discuss the FDA 2019 testing on its
15	documents that they should have posted but they	15	website, correct?
16	didn't?	16	That is where you can find it, is that
	3.50 5.45 5.50 5.4	17	correct?
17	MS. PARFITT: Objection to form.		A I believe that they have at least a press release
17 18	MS. PARFITT: Objection to form. A No, I'm not claiming that at all.	18	11 1 believe that they have at least a press release
l		18 19	related to that, yes.
18	A No, I'm not claiming that at all.		
18 19	A No, I'm not claiming that at all. Q Your second block quote leads with "Thousands of	19 20 21	related to that, yes.
18 19 20	A No, I'm not claiming that at all.Q Your second block quote leads with "Thousands of tests."	19 20	related to that, yes. Q And they have a statement explaining it, is that correct? MS. PARFITT: Objection to form.
18 19 20 21	 A No, I'm not claiming that at all. Q Your second block quote leads with "Thousands of tests." Do you see that? A I do. Q Are you disputing that there have been thousands 	19 20 21	related to that, yes. Q And they have a statement explaining it, is that correct?
18 19 20 21 22	A No, I'm not claiming that at all.Q Your second block quote leads with "Thousands of tests."Do you see that?A I do.	19 20 21 22	related to that, yes. Q And they have a statement explaining it, is that correct? MS. PARFITT: Objection to form.

	Page 154		Page 156
1	I can't say as to whether it's correct or not.	1	referenced.
2	Q And when Johnson & Johnson refers to testing that	2	Q Okay.
3	has confirmed the talc to be asbestos free by a	3	A You know, so looking at it, I would, you know,
4	range of independent laboratories and	4	like, I can't look at it and say, okay, number
5	universities, do you have any reason to dispute	5	I mean, I can because this was the literature I
6	that?	6	reviewed but someone in the public could not
7	MS. PARFITT: Objection. Form.	7	look at it and say, okay, Gonzales, that is
8	A I did not look for any of this information amongst	8	associated with the Sister Study.
9	the 3,200 documents that were in the drop box	9	That is what I meant by direct reference,
10	provided by Johnson & Johnson.	10	that I didn't see the footnote in the body of the
11	Q In the first paragraph in the "Facts About Talc"	11	web page here.
12	section you include the sentence that the website,	12	Q Okay. Then you finish this section with a comment
13	the statement on the website "only includes a	13	that you say, beginning at the end of Page 12 you
14	handful of studies, and none of them are directly	14	said, "Finally, under the 'News' tab, there are
15	referenced."	15	many statements in response to the various ongoing
16	Do you see that?	16	litigations for both mesothelioma and ovarian
17	A Right.	17	cancer, which give the illusion of full
18	Q What does that mean when you say "none of them are	18	transparency."
19	directly referenced"?	19	Do you see that?
20	Did you see on the website there are multiple	20	A Yes.
21	studies actually cited and referenced?	21	Q Is that an expert opinion that you intend to offer
22	A They are cited and referenced, but they don't	22	to the jury?
23	necessarily point to different areas where, like,	23	MS. PARFITT: Objection to form.
24	that exact citation matched to something that was	24	A My expert opinion is really based on the science.
25	printed on the website.	25	It's not necessarily based on any of this
	Page 155		Page 157
1	The link provided at that time was broken,	1	supporting documentation.
2	the one that linked to the American Cancer	2	Q For that sentence, are there any particular news
3	Society. That may be fixed now. When I was	3	statements that you are referring to?
4	looking at this a couple days before this report	4	A No. It's kind of as a whole. There is all of
5	was due, it was unavailable. It was down.	5	this literature or not even literature
6	Q I printed off a copy of the study's tab on the	6	there's all of these statements and different
7	"Facts About Talc" website.	7	things that I think when you look at it you think,
8	A Okay.	8	wow, everything is here.
9	Q I guess I will mark this as Exhibit 11.	9	In my review, it's almost impossible to go
10	(EXHIBIT NUMBER 11 WAS MARKED FOR	10	through it in any sort of systematic way just
11	IDENTIFICATION.)	11	based on how it's arranged and just the sheer
12	Q I'm just trying to clarify the statement in the	12	magnitude of the information there.
13	report when you say "none of them are directly	13	Q There have been a lot of documents in this
14	referenced." That is the terminology that you used	15	litigation. You understand that?
16	That is the terminology that you used, correct?	16	A Absolutely, yes.
17	A I believe so, yes.	17	Q And you understand that, again, those documents
18	Q Okay. And if we look at the last page of the	18	are posted to be available to those who might be
19	statement whether or not you agree with the	19	interested in seeing them, correct?
20	statement, there is a list of references. It	20	A Correct.
21	directly identifies studies, correct?	21	MS. PARFITT: Objection. Asked and
22	A It directly identifies studies. I'm missing where	22	answered.
23	the footnotes are in here. So I would expect to	23	Q Are you claiming that Johnson & Johnson has
24	see, you know, something, like, with a little	24	violated some sort of industry standard or other
1	footnote in one. That is what I mean by directly	25	standard for posting these materials?
25	TOURIOLE III OHE. THALIS WHALL HEAD BY UNELLIV		

	Page 158		Page 160
1	MS. PARFITT: Objection. Form.	1	MS. PARFITT: Good place to stop?
2	A That was not my charge, nor my intent.	2	MR. JAMES: Yes.
3	Q You are aware that there are scientists, both	3	(OFF RECORD AT 12:32 P.M.)
4	internally and externally, who disagree with the	4	(AT THIS TIME A SHORT RECESS WAS HELD OFF
5	claims being made in this litigation, is that	5	THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS
6	correct?	6	WERE HAD:)
7	MS. PARFITT: Objection.	7	(ON RECORD AT 1:25 P.M.)
8	A I think there are probably scientists internally	8	BY MR. JAMES:
9	and externally that agree with claims on both	9	Q Good afternoon, Dr. Cote.
10	sides being made. That is part of why we are		A Hello.
11	here.	11	Q With respect to the methodology that you followed
12	Q Do you agree that Johnson & Johnson has the right	12	in this case, have you applied the same
13	to make public it's views on the scientific	13	methodology that you would in your professional
14	evidence and the merit of this talc litigation?	14	career?
15	MS. PARFITT: Objection to form.	15	A Yes. With respect to the methodology of how I put
16	A I believe that Johnson & Johnson has the right to	16	the report together, how I analyzed the studies, I
17	put forward whatever documentation they want to	17	started with, you know, a pull from some publicly
18	for whatever purposes they want to.	18	available database of peer reviewed literature.
19	Q And do you believe that external scientists who	19	I went through the literature. I went
20	disagree with these claims being made in this	20	through the reference section for additional
21	litigation have a right to have a voice in a	21	sources. I started my comprehensive review kind
22	public forum?	22	of going through the literature study by study.
23	MS. PARFITT: Objection to form.	23	I tried to pull out similar elements like
24	A Yes. So when you say "these claims" what do you	24	sample size and different characteristics about
25	mean?	25	each individual study. And that was my
	Page 159		Page 161
1	Q Sure. I will be more precise.	1	
2	You acknowledge that there are scientists who	2	
3	do not think talcum powders cause ovarian cancer,	3	
4	correct?	4	
5	A Yes, I believe that.	5	
6	Q And those scientists can exist both internally	6	
7	with Johnson & Johnson and externally, is that	7	
8	correct?	8	
9	MS. PARFITT: Objection. Form.	9	
10	A Correct. I believe there are scientists both	10	
11	internally and externally that may disagree.	11	
12	Q And although you may not agree with the position		
13	of Johnson & Johnson as reflected in some of these		
14	statements	14	•
15	A Correct.	15	
16	Q do you believe that the scientists have a right	16	
17	to express their views on the science?	17	
18	A Yes, I believe scientists have the right to	18	
19	express views on the science.	19	-
20	Q Wrapping this up, do you intend to offer any	20	
	expert opinions on the topics of business	21	
21	practices or corporate conduct?	22	
22	*		
	A I do not plan on offering any expert opinions on	23	A Yes. As an epidemiologist when I'm writing papers
22	A I do not plan on offering any expert opinions on those two areas, business practices or corporate	23 24	1 0 011

	D 1/2		P 164
1	Page 162 Q Yes or no, do you agree in the field of	1	Page 164 Q Do you believe that randomized controls are
2	epidemiology that there is a generally accepted	2	superior to cohort and case control studies?
3	hierarchy of epidemiologic study design?	3	Just yes or no.
4	A No.	4	A I can't answer that yes or no. It depends on the
5	Q Have you ever seen a hierarchy design illustration	l .	research question. Randomized control trials are
6	in an epidemiologic textbook?	6	outside of the scope of epidemiology.
7	A Yes, I'm aware of what you are referring to.	7	Epidemiology is an observational science. We do
8	Q Have you ever handed one out to your students in	8	not assign different people to groups.
9	class?	9	That study design is not even really
10	MS. PARFITT: Objection to form.	10	considered as an epidemiologic type of study.
11	A I do not believe we have ever handed one out, no.	11	Q Have you ever published an epidemiologic case
12	Q Have you	12	control study on a topic of interest and in that
13	A I co-teach.	13	study cited the need for further research on
14	Q Have you ever taught that prospective cohort	14	that same topic, but with prospective cohort
15	studies, in general, are viewed to have a superior	15	data?
16	design as compared to retrospective case control	16	A You know, I have somewhere around 140 different
17	studies?	17	publications. I can't say I have ever said we
18	A I have definitely heard that before. I have seen	18	need prospective data.
19	it in some textbooks.	19	I think there are certain cases where we
20	But, no, I do not believe I have taught, nor	20	could. In almost all of our studies we do say we
21	do I believe that one is superior to the other.	21	need additional research in that area.
22	Both of them how we have always taught it is	22	Q I will mark as Exhibit 12 a 2016 paper in the
23	almost, we separate them out into case control and	23	British Journal of Cancer on Analgesic Medication
24	cohort into two columns. And we talk about the	24	Use and Risk Of Epithelial Ovarian Cancer In
25	strengths of each one.	25	African-American Women.
	Page 163		Page 165
1	So, like, for a cohort study, the strength of	1	(EXHIBIT NUMBER 12 WAS MARKED FOR
2	So, like, for a cohort study, the strength of the study is, well, first, how you would select	2	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)
2 3	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.	2 3	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.) A Okay.
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		Page 166		Page 168
1		underrepresented racial groups."	1	correct?
2		Do you see that?	2	MS. PARFITT: Objection.
3	A	I do.	3	A Correct.
4	Q	Is the reference to the cohort studies in that	4	Q You do agree that case control studies may be more
5		sentence, is that referencing prospective cohort	5	prone to recall bias, correct?
6		data?	6	MS. PARFITT: Objection. Form.
7	A	I would believe so, yes.	7	A More prone compared to what?
8	Q	Again, this paper specifically pertains to a risk	8	Q Look at your report on Page 8.
9		factor for ovarian cancer, correct?	9	A Yes.
10	A	Correct.	10	Q Near the bottom of Page 8 you have a definition
11		The language of the paper of which you are a	11	for recall bias, correct?
12		co-author is that the cohort data is, quote,	12	A Yes.
13		needed in order to fully elucidate the impact.	13	Q And in the third line down you say, "Case control
14		Do you see that?	14	studies may be more prone to this type of bias."
15		Yes. The final sentence.	15	Do you see that?
16		And the one that I just read, again, the	16	A Yes.
17		terminology there that you use, or the authors	17	Q So here you are referring to recall bias, is that
18		including you, have used "is needed," correct?	18	correct?
19		Correct.	19	A That is correct.
20		Here in this paper you are at least acknowledging		Q So, again, you would acknowledge that case control
21		the need for prospective cohort data on an ovarian	21	studies may be more prone to recall bias, is that
22		cancer risk factor, correct?	22	correct?
23		Yes. And you want that data so you can fully alvaidate	23	MS. PARFITT: Objection. Form.
24 25		And you want that data so you can fully elucidate the impact of that risk factor, correct?	25	
23			23	that the key difference is whether recall varies
1	Δ	Page 167 Correct.		Page 169
2			- 1	by the outcome of interest
	α		1 2	by the outcome of interest. And so there are certain and about what
	Q	This paper was authored before you were retained	1 2	And so there are certain and about what
3		This paper was authored before you were retained as an expert in this litigation, correct?	1 2	And so there are certain and about what the exposure is. There are certain exposures that
3 4	A	This paper was authored before you were retained as an expert in this litigation, correct? Correct.	1 2 3 4	And so there are certain and about what the exposure is. There are certain exposures that may be more prone to recall bias than other
3 4 5	A Q	This paper was authored before you were retained as an expert in this litigation, correct? Correct. Has your opinion on the value of prospective	1 2 3 4 5	And so there are certain and about what the exposure is. There are certain exposures that may be more prone to recall bias than other exposures.
3 4	A Q	This paper was authored before you were retained as an expert in this litigation, correct? Correct. Has your opinion on the value of prospective cohort data to evaluate ovarian cancer risk factor	1 2 3 4	And so there are certain and about what the exposure is. There are certain exposures that may be more prone to recall bias than other exposures. Q Sure. But just, again, quoting the language of
3 4 5 6	A Q	This paper was authored before you were retained as an expert in this litigation, correct? Correct. Has your opinion on the value of prospective	1 2 3 4 5 6	And so there are certain and about what the exposure is. There are certain exposures that may be more prone to recall bias than other exposures. Q Sure. But just, again, quoting the language of your report, it is not my language, you do have in
3 4 5 6 7	A Q A	This paper was authored before you were retained as an expert in this litigation, correct? Correct. Has your opinion on the value of prospective cohort data to evaluate ovarian cancer risk factor changed since you wrote this paper?	1 2 3 4 5 6 7	And so there are certain and about what the exposure is. There are certain exposures that may be more prone to recall bias than other exposures. Q Sure. But just, again, quoting the language of
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	Page 170		Page 172
1	A Yes.	1	A So when you are asking me to judge is ever never
2	Q And certainly that would be exposures that, for	2	best or not, there is always, when we are writing
3	example, are not verifiable by medical records,	3	the questionnaires for the women there is usually
4	correct?	4	a timeframe given. We need to look at the
5	MS. PARFITT: Objection. Form.	5	timeframe.
6	A I don't know if you could say that. I mean, the	6	Q Do you believe for purposes of recall bias, I
7	reason that you would use medical records would be	7	think this is what you just said, but for purposes
8	to confirm something.	8	of recall bias in the talc studies, ever never
9	I don't know if those factors that you	9	measurement is subject to less recall bias than
10	confirm on medical records would be more or less	10	measurements by frequency or duration or
11	prone to recall bias.	11	cumulative life exposures?
12	You would be talking about a way to help	12	A Again, based on timing and some other factors,
13	address or reduce recall bias, but it does not	13	ever never may be less likely to have recall bias
14	necessarily mean that factors that are available	14	introduced.
15	through medical record review are more or less	15	Some of that is just based on the timing of
16	prone to recall bias.	16	when the question is being asked of the women and
17	You would just have an additional way to	17	based on kind of the window or the timeframe you
18	verify them.	18	are asking the question.
19	Q You are aware that in the literature, whether or	19	So it's hard to just give a one yes or no
20	not you agree with it or not, but in the	20	answer there.
21	literature, many authors have noted that talc	21	Q On Page 10 and Page 11 of your report you have a
22	usage is one of the outcomes that is especially	22	section on the Risk Factors. Flip to that for me.
23	prone to recall bias, correct?	23	A Okay.
24	MS. PARFITT: Objection. Form.	24	Q In there you set forth a paragraph or a discussion
25	A I would be interested in seeing that literature.	25	of modifiable risk factors for ovarian cancer and
	Page 171		Page 173
1			
1	One of the things that I had read, I want to say	1	non-modifiable risk facts, correct?
2	One of the things that I had read, I want to say it was one of O'Brien's papers, was that	1 2	non-modifiable risk facts, correct? A Correct.
2	it was one of O'Brien's papers, was that	2	A Correct.
2	it was one of O'Brien's papers, was that especially for ever never exposure they felt like	2 3	A Correct. Q Do those listings represent your professional
2 3 4	it was one of O'Brien's papers, was that especially for ever never exposure they felt like that was an exposure that was not particularly	2 3 4	A Correct.Q Do those listings represent your professional judgment on the current list of risk factors for
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1	Page 174		Page 176
1	A Yes. I list one right here. Lynch syndrome or	1	kind of takes away the majority of the tissue that
2	NNPCC, that is one. There are other rare familial	2	is at risk. Leaving the fallopian tubes you may
3	syndromes that also increase risk of ovarian	3	still may be at risk. Even removal of both
4	cancer and other cancers.	4	sometimes, you know, there is tissue remaining.
5	Q Are you familiar with the emerging literature on	5	But is there a hormonal component in there?
6	the FANC mutation as a risk factor for ovarian	6	Yes.
7	cancer?	7	Q Have you seen literature talking about how, for
8	A I don't know if I'm, if I would classify myself as	8	example, the removal of tubes can lessen the risk
9	familiar with that, no. I did not do a review of	9	because the fimbriaed ends of the tubes are no
10	the genetics of ovarian cancer.	10	longer present?
11	Q Have you seen a paper or papers where FANC is now	11	A That it is a disruption, yes.
12	being discussed as a genetic risk or a potential	12	Q And that is where cancer is thought to some
13	risk factor for ovarian cancer?	13	people have posited that that is where high grade
14	A I cannot pull one from my brain with an author or	14	serous cancer is thought to originate from,
15	even a date right now. I would be happy if you	15	correct?
16	have one available that I would review it and give	16	A Right. Certain subtypes of EOC may originate in
17	you my thoughts.	17	the fallopian tubes, yes.
18	Q In this list of risk factors that you have here,	18	Q Have you published on other you have published
19	just to confirm again in this list, you have not	19	on other potential risk factors for ovarian
20	listed asbestos fibrous talc, heavy metals, or	20	cancer, correct?
21	fragrances as standalone risk facts, is that	21	A Yes. Probably at least twenty different ones if I
22	correct?	22	had to ballpark a number.
23	MS. PARFITT: Objection.	23	Q Okay. I have glanced at a few of them. I will
24	A As standalone risk factors, no. But general use	24	tick them off and ask if those sound familiar.
25	of talcum powder is, yes.	25	A Okay.
	Page 175		Page 177
1	Q We have talked about those topics in sufficient	1	
2	detail this morning, correct?		- ·
	detail time morning, confect.	-2	overall healthy diefary pattern, high intake of
∟ 3	A Yes we did	2 3	overall healthy dietary pattern, high intake of total sugars, cigarette smoking among
3	A Yes, we did. O With respect to your commentary on hysterectomy	3	total sugars, cigarette smoking among
4	Q With respect to your commentary on hysterectomy	3 4	total sugars, cigarette smoking among African-Americans, obesity and excessive adult
4 5	Q With respect to your commentary on hysterectomy and oophorectomy do you see that?	3 4 5	total sugars, cigarette smoking among African-Americans, obesity and excessive adult weight gain, pro-inflammatory diets, high calcium
4 5	Q With respect to your commentary on hysterectomy and oophorectomy do you see that?A Yes.	3 4 5 6	total sugars, cigarette smoking among African-Americans, obesity and excessive adult weight gain, pro-inflammatory diets, high calcium low lactose diets, and family history of
4 5 6 7	 Q With respect to your commentary on hysterectomy and oophorectomy do you see that? A Yes. Q Do you recognize that one explanation for 	3 4 5 6 7	total sugars, cigarette smoking among African-Americans, obesity and excessive adult weight gain, pro-inflammatory diets, high calcium low lactose diets, and family history of pancreatic cancer.
4 5 6 7 8	 Q With respect to your commentary on hysterectomy and oophorectomy do you see that? A Yes. Q Do you recognize that one explanation for reduction in risk associated with hysterectomy, 	3 4 5 6 7 8	total sugars, cigarette smoking among African-Americans, obesity and excessive adult weight gain, pro-inflammatory diets, high calcium low lactose diets, and family history of pancreatic cancer. Are all of those topics that you recall
4 5 6 7 8 9	 Q With respect to your commentary on hysterectomy and oophorectomy do you see that? A Yes. Q Do you recognize that one explanation for reduction in risk associated with hysterectomy, oophorectomy has been a less than hormonal risk as 	3 4 5 6 7 8 9	total sugars, cigarette smoking among African-Americans, obesity and excessive adult weight gain, pro-inflammatory diets, high calcium low lactose diets, and family history of pancreatic cancer. Are all of those topics that you recall having published on over the course of your
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,	Page 178	1	Page 180
1		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q With respect to migration, your opinions on migration, we will shift to that. Okay?
2		$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	A Sure.
3	•	4	Q Have you cited any studies that mimic what is
4			being alleged here, which is that talc applied
5	-	5	• •
6	•	6 7	perineally can migrate up the female genital tract?
7	1 1		A Let's look at that section where I discuss this.
8	· · · · · · · · · · · · · · · · · · ·	8	
9		9	Q I will go through some of those studies in a
10		10	moment.
11		11	A Yeah.
12		12	Q My question is, let me rephrase it.
13		13	Have you seen any studies that demonstrate
14		14	that following perineal talc application that talc
15		15	is migrating up the female genital tract?
16		16	MS. PARFITT: I will object to form.
17	•	17	A I've not seen those studies other than the one we
18		18	quoted in here that was about the use of talcum
19		19	powder or talc on gloves, like examination gloves.
20		20	But as for, you know, trying to get a group
21	•	21	of women to apply talc and then looking to see at
22		22	one hour, twelve hours, twenty-four hours if it
23	*	23	has migrated up into the reproductive system, no,
24		24	I've not seen that type of study published.
25	going to differ between your cases and controls.	25	I think that would be very hard to get
	Page 179		Page 181
1	• •	1	approved by a review board.
2		2	Q The studies that you do cite on Page 13 of your
3	•	3	report for migration, in the first paragraph you
4		4	cite a study that deals with carbon, you cite a
5		5	study that deals with ink, and you cite a study
6	3	6	that deals with radioactive tracers.
7		7	Those are the three that you cite in the
8	•	8	first paragraph, correct?
9	,	9	A Yes.
10	·	10	Q And do those studies mimic what is being alleged
11			here?
12		12	MS. PARFITT: Objection to form.
13	e	13	Q That perineal talc migrates up the genital tract.
14	1 ,	14	Do they mimic?
15		15	Would you agree with that characterization or
16	•	16	not? Yes or no?
17	•	17	A No. The goal was not to mimic. It was to set the
18	•	18	stage and build the support for the idea, you
19	•	19	know, in the first one, which was in 1957, that
20		20	describes the cooperation of the musculature of
21		21	the female genital tract as a way to move sperm,
22		22	you know, up into, you know, into the vagina and
23	, 1	23	into where it can be ultimately fertilized.
24	1 1	24	So it's really trying to show a history of

what we knew about kind of normal female

25

was always included.

25

Page 182		Page 184
1 functioning at the time.	1	answered.
2 Q The Egli and Newton paper in particular, that	2	A No. I believe that this study, is, as I stated
3 study involved the deposition of carbon particles	3	previously, it's adding support to the idea that
4 at the top of the vagina, correct?	4	particles of various types can move from one area
5 A Yes.	5	of the human female reproductive tract into
6 Q The studies in the first paragraph that you cited	6	another area of the reproductive tract.
7 are all significantly dissimilar as to what is	7	Did they test talc? No. Here they used
8 being alleged here, correct?	8	carbon particles. I realize those are two
9 MS. PARFITT: Objection. Form.	9	different compounds.
10 A How are they dissimilar?	10	Q And under highly different conditions, correct?
11 Q Let's mark the Egli paper as Exhibit 13.	11	Here we have the use of oxytocin and that is
12 (EXHIBIT NUMBER 13 WAS MARKED FOR	12	very different than what is being alleged here,
13 IDENTIFICATION.)	13	correct?
14 Q On the second page, Page 152, under the method	14	MS. PARFITT: Objection. Form.
section do you see that second paragraph where it	15	A I don't know what you are alleging here.
16 says "Three women"?	16	Oxycontin, from my understanding, makes muscle
17 A Yes.	17	contractions. That's my understanding. That is
18 Q So they note that there was general anesthesia.	18	something that they use to induce labor.
19 The patient was placed in the how do you	19	There are other things that cause muscle
20 pronounce that lithotomy position?	20	contractions of the uterus like uterine cramps
21 A Sounds good.	21	when a woman has her period.
22 Q "With her head tilted downward. The speculum was	22	There are more similarities here that I think
23 introduced into the vagina, and three to four	23	this question, this question alludes to.
24 millimeters of sterile carbon particles-Dextran	24	Q Do you agree or disagree that the study cited in
suspension were deposited in the posterior fornix.	25	this first paragraph of the biological mechanism
Page 183		Page 185
1 At the same time one milliliter of oxytocin was	1	section of your paper I will rephrase it.
2 given intramuscularly."	2	Do you believe that the studies in the first
3 Do you see that?	3	paragraph cited in that section are comparable to
4 A Yes.	4	the allegation that perineal talc migrates up the
5 Q Is that in any way similar to what is being	5	female genital tract?
6 alleged here that perineal, that a woman who	6	Are they comparable?
7 applies talcum powders to her perineum, is it in	7	MS. PARFITT: Objection. Asked and
8 any way similar to the hypothesis that as a result	8	answered.
9 of applying talc to the perineum, that talc can	9	A Yes, I agree they are comparable based on the idea
migrate up the genital tract?	10	that there are, I should says lines of evidence
11 MS. PARFITT: Objection.	11	that we, I, am trying to use in this report, which
12 A What this paper, and why this paper was cited, was	12	is different substances can move up the female
13 to build support and a line of evidence suggesting	13	genital tract.
that the tract was open.	14	I believe that that supports the idea that
That things could be transmitted from one	15	talc could move up the female genital tract.
area of the female genital tract to other distant	16	Q Do you believe that the "idea" is the word that
areas of the female genital tract.	17	you use, is that an idea that has been
18 It's interesting that I think much of this	18	scientifically proven?
	19	Is it still a theory? Or it is a hypothesis?
19 work was around infertility. What they are	20	A I believe that that hypothesis was addressed in
	20	
19 work was around infertility. What they are	20	this first paragraph on Page 13 talking about how
work was around infertility. What they areshowing here is that, yes, you can get foreign		this first paragraph on Page 13 talking about how sperm can move distally, how the carbon particles
work was around infertility. What they are showing here is that, yes, you can get foreign objects in here, it's carbon, from one area to	21	
work was around infertility. What they are showing here is that, yes, you can get foreign objects in here, it's carbon, from one area to another area.	21 22	sperm can move distally, how the carbon particles

	Page 186		Page 188
1	Q Do you believe the claim that talc applied	1	MS. PARFITT: Objection. Form.
2	perineally can migrate up the female genital tract	2	A I'm happy to examine each of these. I don't
3	to the ovaries?	3	remember details in their method section or, you
4	Do you believe that claim is scientifically	4	know, discussions about limitations regarding,
5	proven, is still a theory, or is a hypothesis?	5	like, the handling of these specimens after they
6	A I believe based on let's go down to the third	6	have been removed, kind of the processing piece of
7	paragraph here.	7	it.
8	"Human studies provide evidence in that talc	8	Q Do you have expertise in the tissue processing
9	particles have been identified in ovarian tissue	9	portion of this?
10	in women with and without ovarian cancer."	10	A I have experience with it. I don't know if I
11	I believe so there was a 1971 report from	11	would say I have expertise. But most of my
12	Henderson all of the way down to I'm trying to	12	research work has been in paraffin-embedded
13	look at the more frequent ones from February of	13	tissue.
14	2020 that show that talc can migrate. I feel at	14	Certainly right now I oversee a large tissue
15	this point to me that is proof.	15	bank of fresh frozen and formula fixed tissue.
16	Q With respect to your discussion of animal studies	16	I'm very familiar with standard operating
17	you say on Page 13 "Animal studies do not provide	17	procedures that are used in handling specimens
18	consistent evidence of translocation of talc - it	18	like this.
19	may be species-dependent."	19	Q So you are aware there are multiple steps in the
20	A Yes.	20	tissue processing?
21	Q Bottom line, animal studies, do you believe animal	21	A Absolutely.
22	studies demonstrate migration or translocation of	22	Q In which foreign particulate matter can be
23	talc?	23	introduced into the specimens, and not just on the
	A I believe that in certain species they do and in	24	surface of the block, but embedded in the block.
25	certain species they do not. It is species	25	You are aware of that, correct?
1	Page 187	1	Page 189
1 2	Page 187 dependent, as I stated in the last sentence.	1 2	Page 189 MS. PARFITT: Objection to form.
2	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole	2	MS. PARFITT: Objection to form. A I'm aware that if the standard operating
2 3	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from	2 3	Page 189 MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction
2 3 4	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration?	2 3 4	Page 189 MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just
2 3 4 5	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration? MS. PARFITT: Objection. Form.	2 3 4 5	Page 189 MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just say, can be absolutely minimized.
2 3 4 5 6	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration? MS. PARFITT: Objection. Form. A The animal studies as a whole, and I'm using	2 3 4 5 6	Page 189 MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just say, can be absolutely minimized. Q If your testimony is that it could be minimized,
2 3 4 5 6 7	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration? MS. PARFITT: Objection. Form. A The animal studies as a whole, and I'm using animals not including humans as animals here, to	2 3 4 5 6 7	Page 189 MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just say, can be absolutely minimized. Q If your testimony is that it could be minimized, can it be eliminated?
2 3 4 5 6 7 8	Page 187 dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration? MS. PARFITT: Objection. Form. A The animal studies as a whole, and I'm using animals not including humans as animals here, to me it's neutral. There is some evidence in	2 3 4 5 6 7 8	Page 189 MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just say, can be absolutely minimized. Q If your testimony is that it could be minimized, can it be eliminated? A I would say that, yes. If you followed the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	dependent, as I stated in the last sentence. Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration? MS. PARFITT: Objection. Form. A The animal studies as a whole, and I'm using animals not including humans as animals here, to me it's neutral. There is some evidence in certain species, and I don't know the reproductive systems of different types of rats versus rabbits versus monkeys, for example, to speak at great depth about it. But certainly it's more neutral for me in terms of strength of evidence. Strength of evidence is really the human studies. Q Do you see the human studies in the last paragraph, that topic? A Yes. Q Do the human studies that you have looked at, McDonald, Johnson, Heller, Henderson, do those studies properly account for the fact that laboratory processing of tissue specimens can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. PARFITT: Objection to form. A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just say, can be absolutely minimized. Q If your testimony is that it could be minimized, can it be eliminated? A I would say that, yes. If you followed the correct protocols you could absolutely eliminate. And, you know, for both it would be easier in some circumstances to eliminate it than other circumstances. But if you followed the standard operating procedures faithfully, you could probably eliminate that exposure. Q Is that standard operating procedure? Are labs processing tissue specimens in a completely sterile particulate-free environment, is that your testimony? MS. PARFITT: Objection. Form. A I can't speak to how these studies were performed. Q I'm asking about your experience at Komen.

	Page 190		Page 192
1	in a sterile environment.	1	introduction of this foreign object.
2	Q Does any gynecologic pathologist that processes	2	Q With respect to the 2019 McDonald study, do you
3	tissue specimens to make diagnoses or make other	3	see that reference at the bottom of Page 13?
4	commentary prognosis on the tissue or the tumor,	4	A Yes.
5	is any gynecologic pathologist processing these	5	Q That is one of the papers we talked about earlier
6	specimens in a particulate-free sterile	6	that was authored by experts for the plaintiffs.
7	vacuum-hooded environment, is that happening?	7	Do you recall that?
8	MS. PARFITT: Objection. Form.	8	A Yes, I recall that.
9	A I can't speak to what happens clinically. I am	9	MR. JAMES: I will mark McDonald as
10	not in the gross room. I'm not a gynecologic	10	Exhibit 14.
11	pathologist.	11	(EXHIBIT NUMBER 14 WAS MARKED FOR
12	Q Do you agree that if there were particulate in a	12	IDENTIFICATION.)
13	human tissue invivo that there would be biological	13	A Okay.
14	reaction to that particle?	14	Q And you recall reviewing this study for the
15	A I think that question is too general for me to	15	preparation of your report, correct?
16	answer.	16	A Yes, I do.
17	Can you be more specific?	17	Q Did you have any concerns with the study?
18	Q I don't think so.	18	Did you identify any weaknesses in it?
19	A Can you restate?	19	MS. PARFITT: Objection. Compound.
20	Q Do you know, I mean, is this something that is	20	You can answer.
21	outside of your expertise? If you don't know, you	21	Q Either one. Give me a concern or a weakness.
22	can answer that way.	22	A As an epidemiologist, I would worry about a sample
23	Do you know if foreign particulate is	23	size of five. I would consider that a limitation.
24	introduced into tissue invivo, will a foreign	24	Q Do you have any concerns with how the cases were
25	particle cause a biological reaction?	25	selected?
	Page 191		Page 193
1	MS. PARFITT: Objection. Form.	1	,
2	A Again, that question is absolutely broad. You	2	They were clear. They all had a history carcinoma
3	know, when you say introduced invivo, are you	3	ovarian cancer and history of perineal talc use.
4	talking about, like, a cell line? When you talk	4	Q So the exposure status was known to the
5	about a foreign object being introduced, you know,	5	researchers, correct?
6	any kind of reaction?	6	A Correct.
7	It's way too broad for me to say yes, no, or	7	Q Is that a flaw?
8	even maybe.	8	A No. In the manner of, you know, you don't know
9	Q So my question is not about invitro. It's not	9	necessarily who on the research team did the
10	about cell studies. It's about invivo. In a	10	patient selection.
11	living human being if foreign particles such as	11	If they are all being, I mean, I'm not sure
12	talc were getting into tissue, would there be	12	how else you would get this tissue. So I don't
13	evidence of biological reaction either through	13	see that necessarily as a flaw. They describe
14	granulomatous reaction, through macrophages?	14	what they did.
15	Do you know that? Is that outside of your	15	That is the idea behind material and methods.
16	expertise?	16	Could somebody reproduce this work?
17	MS. PARFITT: Objection. Form.	17	Q Turn to Page 591 of the article. The second page
18	A I know what I know from reading the literature and	18	A Yes.
19	from understanding just basic biology that what	19	Q The bottom full paragraph starts with "Tissue
1	you are alluding to from what I can gather from	20	digestion."
20		- 1	D 1 10
21	your question is host response, like, the actual	21	Do you see that?
21 22	your question is host response, like, the actual person, the host's response to this foreign body.	22	A I do.
21 22 23	your question is host response, like, the actual person, the host's response to this foreign body. That may differ for everybody. You can't	22 23	A I do.Q So in this paragraph they are talking about tissue
21 22	your question is host response, like, the actual person, the host's response to this foreign body.	22	A I do.

	D 104		P. 10¢
1	Page 194 Q And I want you to look at that last sentence for	1	Page 196 that study to see if they had negative controls.
2	me.		Q Do you think negative controls is a necessary
3	A Okay.	3	component of a study like this?
4	Q It says, "Also, even though the authors stated		A It really depends on the overall hypotheses.
5	they used talc-free gloves, contamination from		Q Okay.
6	laboratory processing sources outside the authors'		A Let me see what they were actually trying to test.
7	own environment could have also played a role,	1	
8	given the widespread occurrence of talc in many	1	A In general, no. There can be study designs that
9	settings."	9	have no controls. We have case only studies. We
10	A I see that.	10	have interventional only arms of other kinds of
11	Q They are talking about the Heller study. That is	11	studies.
12	cited in your report.	12	Q So if the Johnson study did not use negative
13	Do you recall that study?	13	controls that would not be methodologically
14	A Yes.	14	concerning to you?
15	Q Again, Heller is the study that looked at particle	15	MS. PARFITT: Objection.
16	burden in both users and non-users. They found	16	A No, it would not. Based on as long as it was
17	talc in everyone.	17	disclosed. And, again, it's really based on what
18	Do you recall that?	18	is the primary hypothesis that they are trying to
19	A I do.	19	examine.
20	Q So this last sentence certainly supports the	20	Q And for Johnson and for McDonald, again, did you
21	notion that processing labs are not particle free	21	see whether or not methodologically they
22	environments, correct?	22	sufficiently accounted for particulate introduced
23	MS. PARFITT: Objection.	23	during the processing of the tissue specimens?
24	A They are stating here that, yes, there could be		A Looking at McDonald, you know, they did talk about
25	unassessed exposures including, I guess it's a	25	what they did to, you know, try to this is on
	Page 195		Page 197
1	little bit up farther, contamination from	1	Page 592. Let's see. That is their second
2	little bit up farther, contamination from laboratory or other sources.	2	Page 592. Let's see. That is their second paragraph there.
2 3	little bit up farther, contamination from laboratory or other sources. Q Got it. And you said your own lab does not	2 3	Page 592. Let's see. That is their second paragraph there. They talk about removing surface
2 3 4	little bit up farther, contamination from laboratory or other sources. Q Got it. And you said your own lab does not advertise itself as a particle free environment?	2 3 4	Page 592. Let's see. That is their second paragraph there. They talk about removing surface contamination. They talk about different ways
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	D 100	D 200
1	Page 198 were published in peer reviewed journals by	Page 200 But it would have to be pretty heavy
2	individuals with expertise in these types of, you	2 contamination from what I'm looking at here.
3	know, bio specimen handling and laboratory	3 Again, the fact that they have provided enough
4	processing, that if they made it through peer	4 detail to make it to peer review, that they have
5	review and addressed the concerns that the	5 done their due diligence, and the fact that they
6	reviewers potentially brought up about all of the	6 said here on Page 529 that the measurements were
7	different methods used in the study, that I would	7 essentially consistent and reproducible, this is
8	be comfortable that the appropriate steps were	8 talking about what they found in the Johnson &
9	taken.	Johnson and the Caswell-Massey talcum powders.
10	Q Okay. Because it went through the peer review	The fact that they also have some, it's an
11	process?	internal control not in the way that we are
12	A Yes, because it went through the peer reviewed	12 talking about controls meaning separate cases, but
13		oftentimes things like replication of your own
14	process. Q Do you have that standard for any article that is	
15	in a peer review journal, that if it made it	
16	through a peer review that you can be happy or	example. That another type of internal control.
17	comfortable with the propositions set forth in	And that would suggest to me that the
18	that article?	17 conclusions of the study are supported by the
19		18 results.
	MS. PARFITT: Objection to form.	19 Q You are aware that in 2010 the IARC Monograph that
20 21	A Asking about any article in the whole wide world of literature, I would still want to review	-
$\begin{vmatrix} 21\\22\end{vmatrix}$	everything individually myself to the best of my	for retrograde transfer of talc to the ovaries in normal women was weak.
23	understanding before I said, like, yes.	
24	Just because it made it through peer review	,
25	it does not mean that it is a hundred percent	24 A I would like to see the whole statement.25 Q Let me ask you this. Do you believe that the
23		
	Dogo 100	
1	Page 199	Page 201
1	perfect. We all find little errors in our own	1 evidence for retrograde transport of talc to the
2	perfect. We all find little errors in our own reports and things as we go through them.	evidence for retrograde transport of talc to theovaries in normal women is weak?
2 3	perfect. We all find little errors in our own reports and things as we go through them. But overall with the general methodology with	 evidence for retrograde transport of talc to the ovaries in normal women is weak? A No.
2 3 4	perfect. We all find little errors in our own reports and things as we go through them. But overall with the general methodology with the methods proposed having a peer reviewed	 evidence for retrograde transport of talc to the ovaries in normal women is weak? A No. Q You cite the Keskin study on Page 14. I will mark
2 3 4 5	perfect. We all find little errors in our own reports and things as we go through them. But overall with the general methodology with the methods proposed having a peer reviewed publication increases my confidence of the study	 evidence for retrograde transport of talc to the ovaries in normal women is weak? A No. Q You cite the Keskin study on Page 14. I will mark that as Exhibit 16.
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	Page 202	Page 204
1	to look at it.	1 rats, what does talc do? That is a very brief
2	Q That is a fairly significant statement in the	2 summary of it.
3	article, correct?	3 And, you know, what they conclude is that it
4	A Right now the way I'm reading it, that is in	4 has unfavorable effects. There is no real talk of
5	reference to BRCA1 positive women. So I need to	5 humans about it at all, other than trying to
6	take a deeper look into that.	6 extend it to this other study of BRCA1 positive
7	Seems to me in this they are comparing, you	7 women.
8	know, the work they presented here that was in a	8 So I don't see where the connection really is
9	rat model to something that was seen in humans, in	9 there.
10	women who underwent a prophylactic oophorectomy.	10 Q With respect to the Mandarino study, I will mark
11	And so they are trying to say what they say	that as Exhibit 17.
12	in rats did not support the findings in these	12 (EXHIBIT NUMBER 17 WAS MARKED FOR
13	women. And, therefore, the study does not	13 IDENTIFICATION.)
14	demonstrate this association.	14 Q Did you have any concerns with that study?
15	But, again, we are comparing rats to humans.	15 MS. PARFITT: Objection to the question.
16	As I mentioned earlier, you know, not knowing the	16 Somewhat broad.
17	details about rat physiology, I would not	17 Q Did you identify any flaws in that study?
18	necessarily expect the findings in rats to apply	18 A Let me take a look.
19	to the findings in humans.	19 MS. PARFITT: Objection to the question.
20	So if I'm interpreting this paragraph	20 You can answer.
21	correctly, it does not seem like a very strong	21 A Sure. No, I don't have any particular concerns
22	statement because, again, it's apples to oranges	22 other than the fact that, again, this is a murine
23	versus apples to apples.	23 ovarian cell model versus in a human. It's just a
l		24 different type of study.
	Q You do cite Keskin in your report, correct? A Yes.	25 Q Was the gene expression profiling unique to talc?
23		
1	Page 203	Page 205
	Q You cite it for the proposition, right, that the	1 A I see the results of the gene expression. I don't
2	preliminary results showed that talc given	2 really see what the results are. Talc and
3	inter-vaginally daily for three months had	3 estrogen. I think that is maybe not.
4	unfavorable effects on the female genital system.	4 Q Do you have the expertise to evaluate this study?
5	That is what you put into your report,	5 A I do. I have a fair amount of work looking at
6 7	correct?	6 gene expression data, mutational profiling and
1	A Yes.	7 those sorts of thing.
1	Q You don't put the corollary that the authors	8 Q Were the dosages in that study appropriate to make
9	actually concluded that the study did not	9 any comment on the hypotheses offered?
10	demonstrate an association between talc	10 A I'm not an expert in toxicology. I could not say
11	application and peritoneal/ovarian cancer.	11 per dose, no.
12	And my question is why would you not have	12 Q I will show you the Fletcher study.
13	given a balanced discussion of this article in	13 A Okay.
14	your report?	14 (EXHIBIT NUMBER 18 WAS MARKED FOR
15	MS. PARFITT: Objection.	15 IDENTIFICATION.)
1	A I feel actually like I do. I just say preliminary	16 Q This is Exhibit 18.
17	results and then they had unfavorable effects.	17 A Yes.
18	I guess I should have said on the rat genital	18 Q This is another one of the studies that have been
19	system similar to that of a foreign body reaction	co-authored by a plaintiffs' expert, is that
20	or infection.	20 correct?
21	And to me this jump into, you know, the	21 A Yes.
22	effects in BRCA1 positive women, that discussion	
23	is maybe an extension of the findings. But the	before it was published?
24	actual, I think, hypothesis or what they were	24 A No.
25	really trying to study here was introduced into	25 Q Do you know if the cell lines they used are good

	Page 206		Page 208
1	models for ovarian cancer?	1	not tell you. I have no opinion on that.
2	MS. PARFITT: Objection.	2	Q As a scientist who works in the field of female
3	Q Is that within your expertise?	3	cancers, that is not something that you are aware
4	A No. I would not characterize cell line as good,	4	of, correct?
5	bad, or otherwise.	5	You have not heard before that CA-125 has a
6	Q Do you know if the SNPs that Dr. Saed tested have	6	role in ovarian cancer causation or initiation,
7	been correlated with ovarian cancer?	7	correct?
8	A SNP, single-nucleotide polymorphisms. Let me see	8	MS. PARFITT: Objection. Form.
9	what they did in this study. I'm not sure how	9	A Initially CA-125 was being used as a biomarker
10	they selected those particular genes or SNPs.	10	detecting ovarian cancer. The hope was that it
11	Certainly, I mean, MPO has been associated	11	would be a marker of early detection. That didn't
12	with several different cancer types.	12	pan out.
13	Q I am sorry. Do you know if they are associated	13	So you could say as an extension from that,
14	with ovarian cancer?	14	that it could be a marker of early carcinogenesis.
15	A Specifically, no. I didn't do a review about the	15	That would imply that it's in the pathway of
16	genetics of ovarian cancer.	16	carcinogenesis.
17	Q Do you know if the dosages that Dr. Saed used in	17	Q As a scientist sitting here today, do you have an
18	this study are comparable in any way to the dose	18	opinion that CA-125 has a role in cancer, ovarian
19	that would be imparted upon a woman who uses	19	cancer causation or initiation?
20	perineal talc?	20	MS. PARFITT: Objection. Asked and
21	MS. PARFITT: Objection. Asked and	21	answered.
22	answered.	22	1
23	A No. I don't know what the actual dose used here	23	a role in causation or initiation based on the
24	was in terms of experientially what it would be	24	data that I have reviewed.
25	compared to what a woman uses.	25	MR. JAMES: Let's take a quick break.
	compared to what a woman uses.	23	WIK. JAWIES. Let's take a quick break.
	Page 207	23	Page 209
1	Page 207 Q Do you believe that CA-125 has a role in ovarian	1	•
1 2	Page 207 Q Do you believe that CA-125 has a role in ovarian cancer initiation?		Page 209
1 2 3	Page 207 Q Do you believe that CA-125 has a role in ovarian cancer initiation? A At this point in time the only evidence I've seen	1	Page 209 (OFF RECORD AT 2:41 P.M.)
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Page 210 1 "The putative mechanism is the inflammatory response caused by the talcum powder, resulting in 2 A Sure. Page 210 1 plausible? Whatever word you was 2 A Sure.	Page 212
	nt to use
	nt to use.
3 chronic inflammation and oxidative stress, which 3 Q How do you feel about the eviden	ce to date?
4 may initiate the carcinogenic process." 4 A I feel like	ice to date.
5 Do you see that? 5 MS. PARFITT: Objection. F	form
6 A Yes. 6 A I feel like there is that the biolog	
7 Q By the usage of the word "putative" there, in your 7 plausibility that talcum powder exp	-
8 mind what level of scientific evidence exists for 8 chronic, among other things, chron	
9 that mechanism? 9 and a host of different reactions, in:	
10 MS. PARFITT: Objection. Form. 10 markers, kind of a cascade of effect	•
11 You may answer. 11 ultimately leads to an environment	
12 A Sure. So I would note that that is from the 12 person is more susceptible to the de	
13 executive summary so I don't have citations or 13 ovarian cancer.	- , · F
anything else built around the executive summary. 14 So it's a biologically plausible m	nechanism.
So I would like us to go back to the section 15 It was, you know, the one that I for	
where I talk about the different lines of evidence 16 the most evidence for.	F
that suggest that this is an inflammatory, kind of 17 Is it proven? That I don't know.	. That was
a chronic inflammatory response as the biologic 18 not the question that I was being as	
mechanism I focused on in my work here, that was 19 question was, is there is causal asso	
to me the best evidence and the best explanation 20 between talc use and ovarian cance	
21 for multiple lines of data. 21 plausibility just one little spoke in t	-
22 Q Do you consider chronic inflammation to be a 22 that wheel.	
23 hypothesis, to be a theory, to be proven? 23 Q Okay. Are there any other mecha	nisms, biological
How do you characterize that? 24 mechanisms that you consider relevant	
25 A I think chronic inflammation with respect to 25 analysis of biologic plausibility oth	•
Page 211	Page 213
1 cancer is the hallmark of cancer. 1 chronic inflammation?	
2 Q Let me be clear. With respect to the talc ovarian 2 A Chronic inflammation was the one	e that I focused on
3 cancer or claim, do you believe chronic 3 primarily.	
4 inflammation is the mechanism for talc to 4 Q I appreciate that. I'm not trying to	be too
5 allegedly cause ovarian cancer? 5 persistent here.	
6 In your mind is that hypotheses still, is it 6 A Okay.	
7 a theory, is it scientifically proven? 7 Q But when you come to trial will you	ou be offering to
8 MS. PARFITT: Objection to the form as 8 the jury another mechanism?	
9 framed. 9 Or is chronic inflammation the r	mechanism that
You can answer. 10 you intend to opine on?	
11 A Yeah. Hypotheses to me is a single I'm going 11 A Based on my readings to date, wh	
to go through each. Hypotheses is just an 12 more evidence is introduced, if more	re, you know,
absolute, like, a single statement. And normally 13 primary literature develops in this a	
we, as epidemiologists we state it as null. There 14 other areas, I think it's, I would hole	-
is no difference between two things. 15 to introduce other, you know, poter	ntial biological
So a hypothesis is something that you build 16 mechanisms.	
17 research around. 17 At this point, based on the readi	-
So the next was, I believe, you used theory? 18 evaluation I've done so far, my focu	us would be on
19 So 19 chronic inflammation.	
20 Q Yeah. I was not trying to use magic words. 20 Q Do you believe that is the plausibil	
21 A Okay. 21 or the plausible mechanism for all s	subtypes of
22 Q I was trying to get your sense of do you feel like 22 EOC?	
23 it has been proven scientifically that talc 23 Did you consider plausibility by	
24 results in chronic inflammation that causes 24 A I did not consider plausibility by h	
25 ovarian cancer? Or do you feel like it's 25 considered just epithelial ovarian cancer.	ancer kind of

	D 014		D 016
1	Page 214 as a whole.	1	Page 216 that you are opining on, would it be visible?
2	Q Did you cite to any study, or are you aware of any	2	MS. PARFITT: Objection. Form.
3	study showing inflamed ovarian tissue following	3	A I think it would be visible to, like, a pathologic
4	perineal talc use?	4	examination of the tissue. Especially if you were
5	A How would you define inflamed ovarian tissue?	5	basically taking slides and cuts of tissue you
6	Q Okay. Let me try to rephrase.	6	could identify things that are markers of
7	A Yes.	7	inflammation like macrophages, infiltrating
8	Q Are you aware of any study that shows an	8	lymphocytes.
9	inflammatory process in gynecologic tissue	9	That to me is evidence of chronic
10	following perineal talc use?	10	inflammation. And localized, as well, potentially
11	A Let's look at what I have written. Actually I	11	to a certain tissue versus, like, chronic whole
12	think there is a very good discussion of this as	12	body inflammation.
13	well in Health Canada. Maybe going to Health	13	Q What study are you referring to?
14	Canada is what we should do first.	14	A Yeah. We can look at these. Some of these were
15	Q I appreciate that. But I'm asking you about a	15	in the Keskin. That was more looking at rats and
16	scientific study.	16	noticed that there was this introduction into the
17	Do you consider Health Canada to be a	17	foreign body. There are other cell lines. There
18	scientific study?	18	are cancer cell lines that increase production of
19	A They were a large systematic review comprised of a	19	reactive oxygen species, which we know then
20	bunch of different scientific studies even much	20	facilitate kind of, again, this cascade effect of
21	larger in scope of what I have done here.	21	a lot of different processes that are associated
22	If we want to go to my section on	22	with cancer initiation and progression. Things
23	inflammation, we can do that. We can also look at	23	like cellular proliferation, differentiation of
24	the Health Canada one.	24	cells, cell signaling, and so forth.
25	Q Let me try to get back on track here. I'm going	25	Those are, you know, in response these are
			/ J / I
	Page 215		Page 217
1	Page 215 to have to ask the questions. If you don't	1	Page 217 cell line studies. There is other work that
1 2	to have to ask the questions. If you don't	1 2	cell line studies. There is other work that
2	to have to ask the questions. If you don't understand the question, just tell me.	2	cell line studies. There is other work that suggests that talc actually attacks these
2 3	to have to ask the questions. If you don't understand the question, just tell me. A Okay.	2 3	cell line studies. There is other work that suggests that tale actually attacks these macrophages because they are like a foreign body.
2 3 4	to have to ask the questions. If you don't understand the question, just tell me. A Okay. Q But are you aware of any study that demonstrates	2 3	cell line studies. There is other work that suggests that talc actually attacks these macrophages because they are like a foreign body. Q So I appreciate that. I appreciate that is what
2 3 4 5	to have to ask the questions. If you don't understand the question, just tell me. A Okay. Q But are you aware of any study that demonstrates inflammation granulomatous reaction through the	2 3 4	cell line studies. There is other work that suggests that talc actually attacks these macrophages because they are like a foreign body. Q So I appreciate that. I appreciate that is what you noted in the report.
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2 3 4 5 6	to have to ask the questions. If you don't understand the question, just tell me. A Okay. Q But are you aware of any study that demonstrates inflammation granulomatous reaction through the female reproductive tract following perineal talc use?	2 3 4 5 6	cell line studies. There is other work that suggests that talc actually attacks these macrophages because they are like a foreign body. Q So I appreciate that. I appreciate that is what you noted in the report. What I didn't see in the report and what I'm asking you if you know exists, do you know if
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Page 218 1 well-accepted that inflammation contributes to the	1	Page 220
well-accepted that inflammation contributes to the initiation, development, and progression of	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	contributes to the initiation, development, and progression of cancer, including ovarian cancer."
3 cancer, including ovarian cancer."	$\frac{2}{3}$	A Yes.
4 Do you see where I read that?	4	Q One of them is that it contributes to the
5 A Yes, I do.	5	initiation of ovarian cancer.
6 Q Is it your testimony, yes or no, is your testimony	6	"Is well-accepted that inflammation
7 that it is well-accepted that inflammation	7	contributes to the initiation of ovarian cancer"
8 contributes to the initiation of ovarian cancer?	8	is that just a plausibility opinion, or are you
9 A Yes. And I think that the paper we talked about	9	saying that that is well-accepted?
earlier that is not cited here, correct, it was	10	
the Johnson paper that I said was a replication	11	It is plausible. It is underneath the biologic
of, in African-American, of the Catherine Brieger	12	plausibility. It is the last sentence in that
paper, the one I mentioned first, almost first	13	section.
14 thing this morning.	14	And additionally, speaking more broadly, you
15 Q Brieger?	15	know, it's a seminal paper in cancer research. I
16 A Brieger, that is it. That was one of the indices	16	believe it was published in 2000. Inflammation is
that they built, was an inflammation index. I do	17	one of the hallmarks of cancer. That is cancers
feel that the biologic plausibility suggests more	18	broadly.
likely than not that this is a potential mechanism	19	But I would not find, I have not found or
20 for ovarian cancer initiation.	20	done an extensive literature search or systematic
21 Q Okay.	21	review of every type of cancer and inflammation.
22 A It's the biological mechanism. I'm not	22	Q Is pelvic inflammatory disease reliably associated
23 necessarily stating it's causation.	23	with ovarian cancer?
24 Q In your opinion, is it well-accepted that	24	J 1
25 inflammation causes ovarian cancer?	25	specifically with respect to ovarian cancer. I
Page 219		Page 221
1 A No. I did not say that it causes it. I said that	1	have seen some studies that indicate it does
2 looking at the association between talc and 3 ovarian cancer, one of the potential biologic	2	increase risk. PID is, I think, sometimes an
3 ovarian cancer, one of the potential biologic 4 mechanisms, and the mechanism that is focused on	3 4	umbrella term. It has a lot of other benign gynecologic conditions associated with it. They
5 here, is that it leads to chronic inflammation.	5	are not necessarily all singular in nature.
6 And it's a, in my mind, a very biologically	6	We did publish a study on this from AACEs. I
7 plausible mechanism from you know, it's	7	would have to go back to the paper and look at it
8 multiple lines of evidence.	8	to see what the actual results were.
9 We see there is evidence for retrograde	9	Q Do you have an opinion sitting here today on
menstruation. We know that from an epidemiologic	10	whether PID is reliably associated with ovarian
standpoint, you know, evidence is stronger when	11	cancer? Yes or no?
you have an open or patent reproductive tract. We	12	MS. PARFITT: Objection. Asked and
see stronger associations with exposure with talc.	13	answered.
We see in, you know, the cell line studies		A There is some evidence that suggests it is. PID
15 that exposure to talc in the cell lines initiates	15	is difficult to define.
a lot of mediators that then are known to be other	16	Q Okay. Do you know if anti-inflammatories are
kind of hallmarks of cancer, like uncontrolled	17	routinely prescribed as a means to reduce ovarian
growth and cellular proliferation, reduction of	18	cancer risk?
19 apoptosis, which is cell death.	19	Have you ever heard of that?
20 Q Right. My question is really, really precise.	20	A I do not believe that NSAIDs are routinely
	1	
21 A Okay.	21	prescribed in the general population to reduce
		prescribed in the general population to reduce risk of ovarian cancer.
21 A Okay. 22 Q We have gone through many of the lines of evidence 23 that you just discussed.	21	
21 A Okay. 22 Q We have gone through many of the lines of evidence	21 22	risk of ovarian cancer.

	Page 222		Page 224
1	like when you cut your finger or something like	1	whether it's acute or chronic.
2	that and, no, that would not lead to ovarian	2	2 Q Are you aware of any study that associates the
3	cancer. There is acute and chronic.	3	histologic presence of chronic inflammation in the
4	Q Do you agree that not all chronic inflammatory	4	female genital tract
5	conditions lead to cancer?	5	5 A No.
6	MS. PARFITT: Objection to form.	6	6 Q with ovarian cancer?
7	A I can't speak to all forms of inflammation and all	7	7 A No. I have not researched that particular
8	forms of cancer and make a blanket statement.	8	3 question.
9	I've not done that review.	9	P Q Have you looked at any literature on chronic tube
10	Q Do you know if rheumatoid arthritis is linked to	10	injuries and whether those are associated with
11	cancer?	11	l ovarian cancer?
12	A I've not looked at that association before.	12	MS. PARFITT: Objection. Form.
13	Q Cancer itself can cause inflammation itself,	13	3 A No, I've not examined chronic tubal injury and
14	correct?	14	
15	MS. PARFITT: Objection to form.	15	5 Q The Savant article on Page 14 that you cite
16	A Cancer of what type?	16	2 2
17	Q Cancer, in general, can cause inflammation,	17	7 A That is a review article.
18	correct?	18	B Q You answered my question. That is just a review
19	MS. PARFITT: Any cancer? Objection.	19	e article?
20	A Any cancer can cause any inflammation anywhere. I	20	A I don't know if it's a systematic review or not.
21	can't really say yes or no to that statement.	21	1 6
22	It's too broad.	22	2 Q Page 14.
23	Q I did not understand because regardless.	23	3 A Reference number what?
24	Do you believe that cancer can cause	24	
25	inflammation?	25	5 A Yes.
	Page 223		Page 225
1	MS. PARFITT: Objection to form.	l	1 Q It's a review article?
2	A I believe that yes, cancer, cancerous cells can	2	2 A It is.
3	induce an immune response much like that of	3	· · ·
4	inflammation.	4	
5	Part of what cancer does, and this is another		5 A Yes.
6	hallmark of cancer, is that it evades the immune	l	6 Q is it fair to say you are providing a summary
7	system.	7	of the article in those two sentences?
8	Q Are you aware of any gynecologic pathologist that	t 8	
9			Am I understanding that correctly?
10	believes high grade serous cancer is correlated	9	Am I understanding that correctly? A Yes.
10	with or associated with inflammation?	10	Am I understanding that correctly? A Yes. Q Are those your independent opinions, or are you
11	with or associated with inflammation? MS. PARFITT: Objection. Form.	10 11	Am I understanding that correctly? A Yes. Q Are those your independent opinions, or are you reporting on Savant?
11 12	with or associated with inflammation? MS. PARFITT: Objection. Form. A I have never had this discussion with the	10 11 12	Am I understanding that correctly? A Yes. Q Are those your independent opinions, or are you reporting on Savant? A After reading Savant this is how I would summarize
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11 12 13 14 15 16 17 18 19 20 21 22	with or associated with inflammation? MS. PARFITT: Objection. Form. A I have never had this discussion with the gynecologic pathologists that I work with. So, no, I am not aware. Q Are you aware of any study that demonstrates an association between the histologic presence of inflammation and tubal injury? MS. PARFITT: Could you repeat the question? Q Are you aware of any study that demonstrates an association between tubal injury or chronic inflammation in the tubes with ovarian cancer?	10 11 12 13 14 15 16 17 18 19 20 21 22	Am I understanding that correctly? A Yes. Q Are those your independent opinions, or are you reporting on Savant? A After reading Savant this is how I would summarize the article by this team. It is probably a very simplistic picture of what they actually included in this review. Q Did you look at the citing references in the Savant article? Do you recall? A At one point in time, sure. Q Did you look to see if the citing references supported the statement in the article? A I believe there were several hundred citing references. Yeah. There is over 231, so I did
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	D 006		P. 000
1	Page 226 believe you were quoting it or close to it on 13	1	Page 228 sentence, "The Health Canada assessment was on
2	with respect to the sentence that since talc is	2	talc alone without considering whether or not talc
3	not degradable by the body it inhibits the wound	3	contained asbestos."
4	healing process resulting in chronic inflammation.	4	Do you see that?
5	That is a statement that comes from Savant?		A Yes, I do.
	A Yes.	6	Q Then on Page 15 under Systematic Reviews in the
	Q Did you see if they cited any support for that	7	second sentence you say, "Of note, this report
8	statement?	8	specifically assumed cosmetic-grade talc 'to be
	A I would have to look. Is the question that is	9	asbestos free'."
10	a two part thing.	10	Do you see that?
11	Is the question that talc is not degradable?	11	A Yeah.
12	Is that what is in question?	12	Q I will mark Health Canada as Exhibit 19.
13	Or that by the fact that it is not degradable	13	(EXHIBIT NUMBER 19 WAS MARKED FOR
14	and that it's essentially this foreign body that	14	IDENTIFICATION.)
15	remains present that it inhibits the wound healing	15	Q In regard to your comments on the asbestos issue,
16	response?	16	I want to turn your attention to Page 6. Excuse
17	Q If it's okay, we will just move on.	17	me. It's Page 3.
1	A Okay.	18	MS. PARFITT: The report is the Health
19	Q Next we will talk about Health Canada.	19	Canada report?
	A All right.	20	MR. JAMES: Yes.
21	Q With respect to the Health Canada screening	21	A Can you read the first line at the top of Page 3?
22	assessment, were you aware that that document	22	Q Sure. "To both."
23	cites litigation reports from paid experts?	23	A Okay. Perfect.
24	A Yes, I was.	24	Q So we see here on Page 3 if you go down to the
25	Q Is that scientifically appropriate?	25	bottom two paragraphs, Health Canada does include
	Page 227		Page 229
1	MS. PARFITT: Objection.	1	a discussion here on the issue of asbestos,
2	A I think for the type of review that Health Canada	2	correct?
3	was doing, they were not trying to publish this as	3	MS. PARFITT: Where are you referring?
4	peer review literature.	4	Q Sure. There are different grades of talc that
5	My understanding was that documents were	5	refer to the purity.
6	openly accepted by both sides. I think that for	6	Do you see that?
7	the purposes of what they are trying to do here,	7	A Yes. I do now.
8	which is inform policy regarding human health,	8	
9	that it would be appropriate.	9	starts with "There are," they refer to the USP
1	Q Have you ever seen another regulatory document		specifications, which I mentioned earlier today,
11	from a body like Health Canada that cites paid	11	right?
12	expert reports?	12	A Yes.
	A I have never	13	Q They talk about how those require the absence of
14	MS. PARFITT: Objection to form.	14	asbestos, do you see that?
	A I have never looked at other types of health	15	A I do.
16	reports from governments.		Q Then you can also see in the next paragraph it
l	Q Did IARC cite reports from paid litigation	17	talks about historically contamination in talcum
18	experts?	18	powders, do you see that?
	A I don't believe so.	19	A Yes.
	Q Are you aware of whether any of the retained	20	Q Let me fix that. Talc source materials.
21	experts for the plaintiffs had contact with Health	21	Do you see that?
22	Canada about the screening assessment?	22	A Yes.
1	A Retained experts from the plaintiffs? Not to my	23	
24	knowledge at the time that I'm reviewing this, no.	24	were contaminated with asbestos." Right?
25	Q On Page 6 of your report you state in the last	25	A Yes.

	Page 230		Page 232
1 Q	Then if you look on the next page you can see the	1	MS. PARFITT: Objection to form.
1	next paragraph says, In Canada."	2	A I think they are making a statement that what they
3	Do you see that?	3	have considered in this review, or in this
4 A	Yes.	4	statement, is talc that is free of asbestos.
5 Q	So at the conclusion of those paragraphs the	5	So the findings in this report are about
I	Health Canada assessment says, "The cosmetic-grade	6	talc, not specifically about talc containing
l	talc used in the health effect studies cited in	7	asbestos.
8	this assessment were considered to be free of	8	Q You acknowledge in your report that Health Canada
9 :	asbestos."	9	has considered the inhalation of talc powders,
10	Do you see that?	10	correct?
11 A	Yes.	11	A Correct. That was not the focus of my review.
12 Q	Is it proper to say that Health Canada did not	12	Q Sure.
13	consider the issue of asbestos or assumed that the	13	On Page 16 you do note that Health Canada
14	products were asbestos free?	14	considered inhalation, correct?
15 A	That is what they state here, yes. That is what I	15	A Yes. They included oral, dermal, inhalation and
16	state on Page 15 as well.	16	perineal.
17	It's not a direct quote, but assumed	17	Q You recognize that Health Canada does not find
18	cosmetic-grade talc to be asbestos free.	18	that inhalation of talcum powders confers a cancer
19 Q	It may be just a difference in terminology, but	19	risk, correct?
20	when I looked at your use of the word "assumed" it	20	MS. PARFITT: Objection to form.
21	conveyed to me that Health Canada had not	21	A Again, that was not the reason that I was reading
22	addressed the issue.	22	and focusing on Health Canada.
23 A	Okay.	23	But I do not identify that in my report,
24	MS. PARFITT: So what is the question?	24	correct.
25	MR. JAMES: I'm asking it.	25	Q You understand that Health Canada has concluded
	Page 231		Page 233
1	MS. PARFITT: Okay.	1	that the inhalation of talcum powders does not
2 Q	If you look at this paragraph, Health Canada walks	2	confer a cancer risk, correct?
	through specifications for talcum powders,	3	MS. PARFITT: Objection to form.
4 (correct?	4	A Cancer risk, meaning lung cancer or meaning
5	It goes through historical information,	5	ovarian cancer?
6	correct?	6	Q Do you understand that Health Canada has concluded
	Correct.	7	that the inhalation of talcum powders does not
	And then it notes in the last paragraph that, "In	8	confer a risk of ovarian cancer?
	Canada, the Prohibition of Asbestos and Products	9	A Yes, I believe that.
	Containing Asbestos Regulations (updated 2018)	10	MS. PARFITT: Objection to form.
11 1	under CEPA prohibit asbestos above trace levels in	11	A I believe the conclusions from Health Canada was
12 j	products available to consumers, including	12	that it was just the association between perineal
12 13	products available to consumers, including cosmetics."	13	talc and ovarian cancer that was the causal
12 1 13 6 14 A	products available to consumers, including cosmetics." Uh-huh.	13 14	talc and ovarian cancer that was the causal association.
12 13 14 A 15 Q	products available to consumers, including cosmetics." Uh-huh. They go on to say, "The cosmetic-grade talc used	13 14 15	talc and ovarian cancer that was the causal association. Q When you say causal, and I saw it sort of
12 13 14 A 15 Q 16	products available to consumers, including cosmetics." Uh-huh. They go on to say, "The cosmetic-grade talc used in the health effect studies cited in this	13 14 15 16	talc and ovarian cancer that was the causal association. Q When you say causal, and I saw it sort of described two different ways in your report. I
12 13 14 A 15 Q 16 17	products available to consumers, including cosmetics." Uh-huh. They go on to say, "The cosmetic-grade talc used in the health effect studies cited in this assessment were considered to be free of	13 14 15 16 17	talc and ovarian cancer that was the causal association. Q When you say causal, and I saw it sort of described two different ways in your report. I think one time you quote their language where they
12 13 14 A 15 Q 16 17 18	products available to consumers, including cosmetics." Uh-huh. They go on to say, "The cosmetic-grade talc used in the health effect studies cited in this assessment were considered to be free of asbestos."	13 14 15 16 17 18	talc and ovarian cancer that was the causal association. Q When you say causal, and I saw it sort of described two different ways in your report. I think one time you quote their language where they say indicative of causal.
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	D 224		Pr 226
1	Page 234 But essentially it still means the same to	1	Page 236 really I think that they only reviewed up until
2	me. The Health Canada report, that was based on	2	about 2006.
3	multiple lines of evidence. They went through a	3	So they are missing right now about fifteen
4	lot of the Bradford Hill considerations. They	4	years' worth of data, you know, from 2006 to, say,
5	drew from multiple sources.	5	2023, last year. So it's more of a limited review
6	As you mentioned, they had testimony from	6	because it's not considering all of the data that
7	plaintiffs and defendants in this case. And their	7	we have accumulated over the last decade and a
8	findings were that there was, it was at least	8	half.
9	indicative of a causal association.	9	Q Did IARC get it right in 2006 and publish in 2010?
10	Q You do appreciate that that is the phraseology	10	Was the evidence at that time supportive of 2B?
11	they used, indicative of a causal effect, is that	11	MS. PARFITT: Objection.
12	correct?	12	A I didn't ask myself that question, per se. I
13	A Perhaps. I mean, I did not read every single I	13	mean, I think what was presented based off of my
14	could not quote every single statement in this	14	reading was that they felt like that was, I
15	report.	15	believe, a move up from their earlier report.
16	To me indicative of causal association is a	16	They had moved from I'm not quoting it
17	causal association. It indicates a causal	17	probably correctly you know, from yeah.
18	association.	18	They moved it from Group 3 to a Group 2B.
19	Q Okay. With respect to inhalation, do you have the	19	So they saw enough evidence, again, this is a
20	opinion that inhalation of talcum powders can	20	comprehensive report, multiple lines of evidence,
21	cause cancer and ovarian cancer, or is that an	21	that suggested that it should be a higher concern
22	area on which you do not intend to opine?	22	for human health.
23	A That is an area I do not intend to opine.	23	Q Do you have an opinion on whether when IARC
24	Q With respect to IARC, you state in your report on		conducted its review that 2B was the correct
25	Page 16 at the very bottom that you believe that	25	classification?
	Page 235		Page 237
1	Health Canada goes a step farther.	1	MS. PARFITT: Objection. Form.
2	Health Canada goes a step farther. That is your terminology, right?	2	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion?
2 3	Health Canada goes a step farther. That is your terminology, right? A Yes.	2 3	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection.
2 3 4	Health Canada goes a step farther. That is your terminology, right? A Yes. Q You believe Health Canada goes farther than IARC,	2 3 4	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection. A Yes. I believe that IARC and the methodology that
2 3 4 5	Health Canada goes a step farther. That is your terminology, right? A Yes. Q You believe Health Canada goes farther than IARC, is that fair?	2 3 4 5	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection. A Yes. I believe that IARC and the methodology that they used was sufficient to go with the Group B
2 3 4 5 6	Health Canada goes a step farther. That is your terminology, right? A Yes. Q You believe Health Canada goes farther than IARC, is that fair? A Yes, that is fair.	2 3 4 5 6	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection. A Yes. I believe that IARC and the methodology that they used was sufficient to go with the Group B classification.
2 3 4 5 6 7	Health Canada goes a step farther. That is your terminology, right? A Yes. Q You believe Health Canada goes farther than IARC, is that fair? A Yes, that is fair. Q And IARC in 2010 when they published their	2 3 4 5 6 7	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection. A Yes. I believe that IARC and the methodology that they used was sufficient to go with the Group B classification. Q 2B?
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2 3 4 5 6 7 8 9	Health Canada goes a step farther. That is your terminology, right? A Yes. Q You believe Health Canada goes farther than IARC, is that fair? A Yes, that is fair. Q And IARC in 2010 when they published their Monograph went with 2B for perineal application of talc and ovarian cancer, correct?	2 3 4 5 6 7 8 9	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection. A Yes. I believe that IARC and the methodology that they used was sufficient to go with the Group B classification. Q 2B? A 2B, yes. Q You also understand that IARC has never classified
2 3 4 5 6 7 8 9	Health Canada goes a step farther. That is your terminology, right? A Yes. Q You believe Health Canada goes farther than IARC, is that fair? A Yes, that is fair. Q And IARC in 2010 when they published their Monograph went with 2B for perineal application of talc and ovarian cancer, correct? A Yes.	2 3 4 5 6 7 8 9	MS. PARFITT: Objection. Form. Q Yes or no? Do you have an opinion? MS. PARFITT: Objection. A Yes. I believe that IARC and the methodology that they used was sufficient to go with the Group B classification. Q 2B? A 2B, yes. Q You also understand that IARC has never classified the perineal use of talc as a Group 1 for ovarian
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	Page 238	Page 2
1	Group 1 human carcinogen.	1 perineal talc used in humans, and less than
2	Q Earlier today you told me that you were opining on	2 sufficient in animals, correct?
3	the body of literature that assesses the	3 A Yes. I believe how it's stated, or how I have it
4	relationship between talcum powders and ovarian	4 stated here, is "evidence supporting risk to
5	cancer, correct?	5 humans is limited, and evidence from animal models
6	A Yes.	6 is lacking; however, it is a higher level of
7	Q That body of literature was assessed by the 2010	7 concern than Group 3," which says that it is "not
8	IARC Monograph, correct?	8 classifiable as to their carcinogenicity to
9	A Yes.	9 humans."
10	Q The IARC 2012 Monograph did not assess the same	10 Q Okay. You also note Group 4 in your report,
11	body of literature that you were assessing in your	11 correct?
12	litigation report, correct?	12 A Yes.
13	MS. PARFITT: Objection. Form.	13 Q Do you know if IARC still uses a Group 4?
14	A The same body of literature. I believe I included	14 A I do not. I have not committed that to memory.
15	some of the literature.	15 Q If I tell you that Group 4 no longer exists, does
16	Q The IARC 2012 Monograph that you just referred to	16 that ring a bell?
17	did not go through Gertig and Gates and Houghton	Do you have any familiarity with that?
18	or Cramer or Merritt or Ness or Mills or Cook or	18 MS. PARFITT: Objection.
19	Chang?	19 A No, I do not.
20	That is the body of literature on talc	20 Q With regard to IARC's classification of limited
21	ovarian cancer, correct?	21 evidence, you understand that they concluded then
22	The 2020 Monograph did not address that body	that chance bias and confounding could not be
23	of literature, correct?	23 ruled out for the association between talc and
24	MS. PARFITT: Objection to form.	24 ovarian cancer, correct?
25	A I can go back and review exactly what 2012	25 A Correct.
	Page 239	Page 2
1	included in their epidemiologic studies if that is	1 Q Let's talk about the section of your report on
2	how we need to spend our time.	2 meta-analysis. I show that is Page 17.
3	Off the top of my head I can't say what	3 A Yes.
4	studies were or were not included in there.	4 Q Just to be fundamentally clear, it's titled
5	Q Okay. The 2010 Monograph is the monograph that	5 Meta-analysis. You conclude with a Table 3,
6	makes a classification on the perineal use of	6 correct?
7	talcum powders, correct?	7 A Yes.
8	A Yes.	8 Q You have input into that table both O'Brien 2020
9	Q The perineal use of talcum powders is not the	9 and Terry 2013, correct?
10	focus of the 2012 Monograph, is that fair?	10 A Yes, that is correct.
11	MS. PARFITT: Objection to form.	11 Q Just to be absolutely clear, those two are pooled
12	A I would say that is fair, yes.	analysis and not meta, is that correct?
13	Q IARC has never issued a Group 1 or a Group 2A	13 A Yes.
14	classification for the perineal use of talc	14 Q Without getting into the details, there is an
15	powders in ovarian cancer, correct?	epidemiologic difference in those two study
16	MS. PARFITT: Objection. Misstates the	16 designs, correct?
17	evidence.	17 A Yes.
18	A The 2010 report is the conclusion that is focused	18 Q With respect to O'Brien, this was the 2020 pooled
	on perineal use of talc-based powder as a Group 2B	analysis of the four cohort studies, correct?
19	carcinogen.	20 A Yes.
		21 Q Let's mark that as Exhibit 20.
20	Q The 2B classification from IARC I understand	
20 21		22 (EXHIBIT NUMBER 20 WAS MARKED FOR
20 21 22	Q The 2B classification from IARC I understand you go further than IARC. We talked about that. A Yes.	22 (EXHIBIT NUMBER 20 WAS MARKED FOR 23 IDENTIFICATION.)
19 20 21 22 23 24	you go further than IARC. We talked about that.	

	D 242		Pr 244
1	Page 242 Q Putting aside whether or not you agree with	1	Page 244 Q Do you believe that the O'Brien paper, the overall
2	O'Brien, the conclusion in the abstract is that,	2	finding of the O'Brien paper, supports your
3	"In this analysis of pooled data from women in	3	causation opinion, or just the findings on patent
4	four U.S. cohorts, there was not a statistically	4	reproductive tracts that supports your opinion?
5	significant association between use of powder in	5	A It is not my overall causation. My overall
6	the genital area and incident ovarian cancer,"	6	causation is not supported based on one study.
7	correct?	7	Overall causation is based on multiple lines.
8	A That is what their conclusion states, yes.	8	Biologic plausibility. Consistency. Strength of
9	Q They also comment in this paper that there was no	9	the association.
10	dose response, correct?	10	Overall, yes, I think the O'Brien paper and
11	MS. PARFITT: Objection.	11	these cohort studies, despite some limitations
12	A Yes. I believe that that is part of their	12	that are inherent to cohort studies, particularly
13	conclusions.	13	of a disease of ovarian cancer which is a later
14	Q Okay. Again, setting aside whether you agree or	14	onset disease, still support the overall
15	disagree, on Page 56 they offer a discussion	15	association findings that there is an association
16	section, the first paragraph.	16	between risk of or I'm sorry between the use
17	A Yes. I see where you are at.	17	of perineal talcum powder, genital talcum powder,
18	Q Okay. They say, "There were no clear	18	and ovarian cancer.
19	dose-response trends for duration and frequency of	19	Q Do you have the opinion that all of the cohort
20	powder use" Correct?	20	studies demonstrate an association, or only three
21	A Yes, that is what they say.	21	of the studies demonstrate an association?
22	Q On Page 50, the page after the abstract, in the	22	A I'm of the opinion that one of the studies, in
23	second paragraph they are talking about case	23	particular, the Sister Study, has serious issues
24	control studies.	24	at least in the initial, in particular in the
25	Then they say, "However, these findings may	25	initial analysis with how they obtained the
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1	be affected by recall bias and the recent surge in	1	exposure information. There was a large degree of
2	be affected by recall bias and the recent surge in talc-related lawsuits and media coverage."	2	exposure information. There was a large degree of misclassification, which they recognized, and it
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	Page 246		Page 248
1	not just stating different. Perhaps it is here.	1	positive, cross one, correct?
2	I think the other three studies individually	2	A Correct. But that can be for various reasons.
3	all provide some evidence that supports a positive	3	And one of the things that you can use when you
4	association.	4	look at the confidence intervals, that gives you
5	Q The terminology "positive association" to you	5	some idea about just the sample size.
6	means that it's more than one and it does not	6	Whereas a P value does not give you any
7	matter if it crosses one, is that correct?	7	additional information.
8	A At this point that is how I would define a	8	Q So for purposes of your opinion here, whether or
9	positive association.	9	not a study presents an association that crosses
10	Q So for you, statistical significance in these	10	one, or whether or not a study has a statistically
11	studies does not prevent you from saying that they	11	significant P value, regardless of all of that, as
12	reflect a positive association, is that?	12	long as the number is more than one you will call
13	MS. PARFITT: Object to the form.	13	it a positive association?
14	A Correct. I would say that there is a positive	14	A I would refer to that as a positive association,
15	association. I would not say that there is a	15	yes.
16	statistically significant association.	16	Q Is that something that you have held to
17	A positive association could still be	17	methodologically your entire career as an
18	important clinically. It could still be important	18	epidemiologist, or is this a new thing?
19	on a population level. Statistical significance	19	MS. PARFITT: Objection to form.
20	is really talking about, you know, a statistical	20	A This has been kind of discussed and emerging in
21	test.	21	the epidemiologic literature over time. A lot of
22	Q But it is a test that is meant methodologically to	22	that, I believe, has been driven by genetic
23	indicate when a certain result can be trusted. I	23	association studies, SNP studies. This was
24	know you may not agree with my terminology.	24	actually what my dissertation work was in, was
25	But it's meant to indicate when a result can	25	looking at seven different SNPS in five different
	Page 247		Page 249
1	be trusted, versus when a result may be due to	1	genes. That was back in 1999, 2000-ish.
2	chance bias or confounding.	2	That was when the field was really taking
3	That is the purpose of statistical	3	off. And what they noticed, and "they" meaning
4	significance, correct?	4	kind of like the collective scientific community,
5	MS. PARFITT: Objection to form.	5	is that these genetic effects could be, in terms
6	A I would say that the P value, again, is really	6	of the point estimate .05 might have been
7	just to test a hypothesis. It usually does not	7	categorized as a very low estimate.
8	indicate bias or confounding. It's really more of	8	But then when you look over the whole
9	chance.	9	population, you say, oh, forty percent of people
10		10	carry that particular variant that increases risk,
11		11	that might not be a statistically significant or
12	applied. A P value of less than .05 is considered	12	impressive, so to speak, odds ratio. But it is
13	to be statistically significant.	13	very significant on a population level.
14	There is no scientific statistical biological	14	And that line of thinking, again, this is
15	reason that we have selected that as a cut point.	15	when I was starting twenty years ago to come into
16	And for that reason, they are being used less in	16	the field, I think that line of thinking has
17	medical literature and scientific literature. A	17	really developed over time so that there is not
18	straight P value, it does not give you as much	18	this reliance on it's statistically significant
19	information as a confidence interval would.	19	so, therefore, it's important, versus it's not
20	Q You don't have to agree with my terminology,	20	statistically significant so, therefore, there is
21	because I know you won't, but you are not just	21	no value.
22	putting aside the P value, you are putting aside	22	Q So with your definition of positive association,
23	the confidence interval, also. Right?	23	is it your contention that the cohorts and the
24	I mean, these studies, these studies cross	24	case controls on talc and ovarian cancer all
25		25	

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consistently demonstrate an association?

25

one, several of the ones that you are calling

25

	5 20		5 44
1	Page 250 Or maybe with the exception of Sisters.	1	Page 252 Q So you are aware that a lot of the literature out
		2	there published to date on this accepts or states
2	MS. PARFITT: Objection. Form. You can answer.	3	
3			that the cohorts are not detecting an association
4	A And the Sister Study I would remove not because of	4	and some of the case controls are.
5	the point estimate that they found. It's really	5	That is published out there in the
6	about the major issue with misclassification of	6	literature. You have seen that characterization
7	the exposure.	7	of the cohort studies, correct?
8	So I want to be clear that that would be the	8	MS. PARFITT: Objection. Form.
9	reason that I would exclude Sisters. It would not	9	A I have seen that characterization. Yes, I have.
10	be because it did not go in the positive	10	Q It's in a lot of the meta-analysis that you cite.
11	direction.	11	It's in all of the cohort studies that you cite.
12	It would be because they noticed, you know, a	12	We just looked at O'Brien where they said
13	flaw that they actually kind of tested and proved	13	they didn't detect an association. All of these
14	was a flaw. But, yes, I think that there is	14	studies are using language to say, the cohorts,
15	consistency between the majority of the case	15	are not detecting an association.
16	control studies and the cohort studies. There is	16	You would disagree with all of those pieces
17	a positive association.	17	of literature that characterize the cohorts that
18	Again, we are talking about a substance, we	18	way, is that correct?
19	are talking about talc here that has, like, no	19	MS. PARFITT: Objection to form.
20	medicinal benefit to women that we know of. And	20	A I don't disagree that those data are out there, or
21	yet it might increase risk of this disease that is	21	those statements are out there.
22	highly rapidly fatal. It has a terribly poor	22	I would disagree that we have four cohort
23	prognosis and induces a lot of suffering.	23	studies that have identified measures of
24	Q All that is totally respected. The latter portion	24	association that are lower than the vast majority
25	of your comment there.	25	of case control studies.
	Page 251		Page 253
1	That is a different issue, isn't it? Whether	1	And that we as a field, you know, we have got
2	or not ovarian cancer is a terrible disease and	2	tens of thousands of cases that we have looked at
3	all of the things that you just mentioned,	3	in these case control studies. We have a fraction
4	methodologically as an epidemiologist, right, wher	1 4	of that in those cohort studies.
5	you are trying to consider whether there is an	5	As I mentioned at the beginning of today,
6	association, that, you know, that is a separate	6	cohort studies are not well designed to answer a
7	issue from thinking about the public health	7	question of a rare disease that takes years of
8	impact, isn't it?	8	initiation. And, you know, that may be leading to
9	MS. PARFITT: Objection to form.	9	some of the differences that you see between those
10	A Yeah. Thinking about whether or not there is an	10	point estimates.
11	association versus the ultimate health impact, to	11	Another concern of relying heavily on these
12	me at the end that, that is more in line with	12	cohort studies is the fact that at entry into the
13	trying to establish causality.	13	study, and I will use Women's Health Initiative as
14	But back to, you know, the area of, you know,	14	an example, you have to be a post-menopausal
15	does the meta odds ratio or relative risks or a	15	woman.
16	single study, is the association, is it nine	16	So any ovarian cancer that occurred
17	percent excess risk? Is it twelve percent? Is it	17	pre-menopausally, which is around seven or eight
18	twenty-five percent? Is it forty percent?	18	percent of all ovarian cancers, were by definition
19	You know, those numbers to me, again, in the	19	missed. And if you believe some of the other
20	totality of all of the analysis, you know, say	20	literature that suggests that the effects of talc
21	it's essentially all in the same direction. Those	21	are enhanced in a group of women who are either
22	odds ratios are all in the same direction whether	22	pre-menopausal in the face or in the
23	it's the nine percent, whether it is the thirteen	23	interactions with estrogen so either on hormone
		2.4	1 (4)
24	percent, whether it's the twenty percent increase	24	replacement therapy or pre-menopausal woman who

	D 051		D 056
1	Page 254	1	Page 256
$\frac{1}{2}$	You know, if those women were included in	1	3 3,
2	these cohort studies, conceivably the point	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	Initiative, WHI, did not detect an association
3 4	estimates would be much more in alignment with what we see in the case control studies.	4	with genital talc use and EOC." Do you see that language?
5	The cohort studies are not the best study	5	
6	designed to answer this question.	6	
	Q And the point estimate you have put in your report	7	
7 8	in several places is 1.25, correct?	8	this was based on 2016, but really probably more
9	A Yes.		
		9	like 2015 that, yes, based on all of the other
	Q Is that the number that you land on as an expert	10	5 3
11	that you think the association from the totality	11	longer agreement with this statement.
12	of the evidence is a 1.25, correct?		Q So today you are changing, or you would change how
13	MS. PARFITT: Objection. Form.	13	you would write this sentence?
	A Yeah. If I had to give a single number, I would	14	ž ,
15	say, yes, about 1.25 based on the available	15	significant.
16	evidence.	16	
17		17	because of these other lines of evidence that you
	A Yes. That does not consider, you know, whether we	18	have considered?
19	have an open or closed tract. If it was in a	19	
20	patent tract, it might be a little higher.	20	
21	Q Okay. With respect to your testimony that the	21	were a retained expert in the litigation that the
22	cohorts show a positive association	22	WHI did not detect an association with genital
23	A Yes.	23	talc use and EOC.
24	Q you have in prior literature previously	24	Those were your words as a co-author,
25	commented on the cohort studies, correct?	25	correct?
		1	
	Page 255		Page 257
1	MS. PARFITT: Objection. Form.	1	A Those were the findings, yes.
1 2	MS. PARFITT: Objection. Form. I'm not sure what cohort	2	A Those were the findings, yes. Q You go on to say that, "Neither prospective study
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2	MS. PARFITT: Objection. Form. I'm not sure what cohort A And I'm not sure prior literature. Q Okay. Well, today your testimony in this room is	2	A Those were the findings, yes. Q You go on to say that, "Neither prospective study found evidence of a dose-response relationship." Do you see that language?
3	MS. PARFITT: Objection. Form. I'm not sure what cohort A And I'm not sure prior literature. Q Okay. Well, today your testimony in this room is that the cohorts show a positive association,	3	 A Those were the findings, yes. Q You go on to say that, "Neither prospective study found evidence of a dose-response relationship." Do you see that language? A Yes.
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	Page 258		Page 26
1	cases are added.	1	introduction to the article.
2	So, again, I am now looking at the Table 4.	2	Q To be honest, I don't know the precise chronology.
3	I'm really looking at WHI number of cases based on	3	Do you recall seeing this?
4	the 2014 which is 429 cases.	4	A I believe so.
5	Then if we can go back to the O'Brien	5	Q Okay.
6	analysis, Exhibit 20. Yeah. The Women's Health	6	A I thought I can tell by the dates on it. This
7	Initiative study here, it went from, you know,	7	is like the introductory commentary about the
8	what was originally published in 2014, so prior to	8	article.
9	the writing of the Schildkraut paper, they had 429	9	Q Okay.
10	cases. Now they have got 649 cases. So not quite	10	-
11	doubling. No. Not quite a doubling. But, you	11	Q I want to ask you about a specific passage. Turn
12	know, a large additional amount of data was	12	over to the second page.
13	included in the O'Brien papers.	13	On Page 30 there is a paragraph there that
	Q Again, my question that we are on right now is	14	starts with, "Given this putative mechanism of
15	whether you still agree that neither NHS nor WHI	15	exposure"
16	found evidence of a dose response relationship.	16	Do you see that?
17	Do you agree with the statement that you made	17	A Yes. They are speaking about inflammation.
18	in 2016, do you agree with that today?	18	Q Okay. And they go on to talk about a
19	MS. PARFITT: Objection. Form. Asked and	19	classification issue. You can read that
20	answered.	20	paragraph. That is between patent and not patent.
21	A Yes.	21	Read that paragraph. Then I want to ask you
22	Q But you do not agree with the prior sentence that	22	a question.
23	you wrote in 2016.	23	A Got it. I'm through it.
24	You no longer agree that the WHI did not	24	Q So in that paragraph one of the issues that they
25	detect an association. You would amend that	25	are discussing is the classification of patent
1	Page 259 today	1	Page 26 versus non-patent, correct?
	A Correct.	2	A Yes.
3 (3	Q Do you agree that the stratification of women into
4	MS. PARFITT: Objection to the form.	4	patent and non-patent does not clearly group women
	A Correct. I would amend that.	5	into exposed and non-exposed categories for the
6	MS. PARFITT: We have gone about an hour.	6	reasons that they stated?
7	Can we take a little break?	7	MS. PARFITT: Objection.
8	(OFF RECORD AT 4:03 P.M.)	8	A I would agree if you are just looking at kind of
9	(AT THIS TIME A SHORT RECESS WAS HELD OFF	9	gross measure of exposure. But it does not, there
10	THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	10	is, like, a curtailing of exposure that could
11	WERE HAD:)	11	occur in women who have had, you know, a
12		12	hysterectomy or oophorectomy or tubal ligation.
	(ON RECORD AT 4:19 P.M.) Y MR. JAMES:	13	So it could be a curtailing of that exposure.
		14	It gives you some additional information.
	With respect to the O'Brien article, did you read the accompanying letter written by Gossett?	15	Q Okay. But you are agreeing that there is some
15 16 A	the accompanying letter written by Gossett?	16	merit to what they are saying about the
	A Let me see.	17	classification issue?
	2 I did not see Gossett listed, in full disclosure.	18	MS. PARFITT: Objection. Misstates
	A If I did not	19	
	Let me mark it and hand it to you.		testimony. A I'm saying this provides additional information.
	Okay.	20	
21	(EXHIBIT NUMBER 22 WAS MARKED FOR	21	What is described here is what we would call it
	IDENTIFICATION.)	22	is a potential effect modifier. When you divide
23 Ç		23	one group into two different groups to see if the
22 23 Q 24 A 25		23 24 25	association differs between those two groups. Here they argue because it's not

		D 060		D 264
1	c	Page 262 statistically different, the HR in the patent	1	Page 264 Q And another point they make is that actually
2		group of 1.13 and the non-patent group of .99,	2	trying to bucketize these two groups of study
3		they are arguing that it's not a statistically	3	participants in the patent and non-patent does not
4		significant difference. So, therefore, it is not,	4	really classify them into exposed versus
5		in their mind, important.	5	non-exposed.
6		Okay. I guess you are talking about the	6	Did you see that point they were making as
7		heterogeneity test they ran between the two	7	well?
8		subgroups?	8	MS. PARFITT: Objection. You are still
9		Yes.	9	talking Gossett, right?
10	Q	In O'Brien, and Gossett re-emphasizes, there was	10	Q Sure. Yes. For the Gossett article, one of the
11		not a statistically significant difference between	11	points they are making is that the stratification
12	t t	the two subgroups, correct?	12	does not clearly group the women into exposed an
13	A	Not statistically significant, correct.	13	unexposed, correct?
14	Q	The conclusions they draw from that finding are	14	That is what they are saying?
15	t	that because of that, you actually really can't	15	A Correct. Because women who had been using, for
16	5 5	say that there was a difference between the	16	example, during their adolescent years who had a
17	' a	association between patent and non-patent?	17	tubal ligation in their thirties, they were only
18	3	They are hinging on statistical significance?	18	exposed it curtails the exposure. They are
19		MR. TISI: Who is they? Gossett or	19	potentially exposed up until that time.
20		O'Brien?	20	Q Do you think there was some merit to that point,
21		MS. PARFITT: Objection.	21	that the stratification does not actually properly
22	_	Gossett.	22	get the case study participants into exposed and
23		Yes. That is what Gossett states.	23	unexposed?
24		O'Brien notes that as well. They note that they	24	Do you think there is some merit to that
25	1	ran the heterogeneity test, correct?	25	point?
1	٨	Page 263	1	Page 265
		Correct. But the heterogeneity test, again, is a	1	MS. PARFITT: Objection.
3		P value. It's based on the simple kind of like a yes or no, versus looking at the hazard ratios.		A I think there is merit to that point. I think it
4	-	One does still, you know, suggest and, in	3	adds some information about the length of exposure.
5		fact, if you are going to look at one P value or		Q Okay. Do you have any concerns with the power of
6		argue statistical significance in one area, it is	6	the cohort studies to detect the level of
7		now statistically significant at 1.01 to 1.26	7	association that you ascribe, which is the 1.25?
8		confidence interval.		A I feel on their own they would be underpowered to
9		Okay. We have talked about your position on	9	detect that association.
10		statistical significance already today, correct?	10	As a group, despite the fact that they ask
11		Correct.	11	questions somewhat differently, they have had to
12		Does that position apply in your mind to this	12	harmonize data that are perhaps not perfectly able
13	_	issue as well, the statistical significance of	13	to be harmonized because it's not the exact same
14		heterogeneity?	14	question being asked for the exact same timeframe
15		MS. PARFITT: Between patent and	15	for all these studies.
16		non-patent?	16	So it's a less than perfect harmonization. I
17		Between these two groups?	17	do think that it is potentially still
		Yes.	18	underpowered.
18				Q And "it" you are referring even with O'Brien?
18 19	Α	Yes. My opinion is that, you know, once you star	11)	
		Yes. My opinion is that, you know, once you star stratifying data in any sort of way when you	20	A Yes. Even summarized together.
19) §			A Yes. Even summarized together.Q Let's look at your report.
19 20		stratifying data in any sort of way when you	20	
19 20 21) s	stratifying data in any sort of way when you already have a limited number of, you know,	20 21	Q Let's look at your report.
19 20 21 22) s 	stratifying data in any sort of way when you already have a limited number of, you know, subjects, you are just absolutely losing the power	20 21 22	Q Let's look at your report.A Uh-huh.

	D 266		D 460
1	Page 266 Q You are talking about Berge. At the very bottom,	1	Page 268 underpowered to detect the magnitude of
2	the second to bottom sentence you say, and you are		association that you are claiming in your report,
3	quoting here, "Thus, low power of cohort studies	3	which is the 1.25?
4	cannot be invoked as explanation of the	4	A I would say that I do not have enough detail, nor
5	heterogeneity of results."	5	have I performed a post-hoc power analysis because
6	Do you see that sentence that I read? That	6	that is also something that, generally speaking,
7	is from Berge, correct?	7	we try to power studies upfront versus
8	A I'm missing where you are.	8	retrospectively, to really, to make that statement
9	Q No worries. Three from the bottom.	9	clearly.
10	A Okay. So I'm seeing, "It should be noted that the	10	I go back to compared to a very well-designed
11	cohort"	11	case control study, and there are a number of
12	Q Yes. Just read to yourself.	12	them, that these cohorts are still underpowered to
13	A Okay.	13	detect associations of that magnitude.
14	Q Then carry on to finish that hanging sentence.	14	And, further, they have got some issues with
15	A Yes. So they are noting that it was just they	15	either classification or selection bias at the
16	note the 429 in this WHI study. "So while the	16	time of study entry that makes them kind of have
17	statement isn't completely correct, the point is	17	different concerns than case control studies, but
18	the same. Power also depends on the variation of	18	there are still concerns with regards to the
19	the prevalence of the exposure between cases and	19	methodology and the ultimate findings.
20	controls, but it is not described."	20	There are strengths and weaknesses of both
21	I just felt like that is not necessarily a	21	types. Cohort studies are perhaps not as well
22	complete power analysis. It does not give me	22	suited as the case control.
23	enough information.	23	And because the case control has kind of been
24	Q Okay. I read that sentence to indicate that you	24	the standard for decades for this research
25	sort of agreed with the proposition in Berge that	25	question, there is just a lot more data there and
	Page 267		Page 269
1	low power was not really a problem.	1	a lot more detailed data there.
2	Did I misread that?	2	Q Okay. In your table on Page 22 of your report
3	A Yes.	3	A Yes.
4	MS. PARFITT: Objection. Form.	4	Q you include a summary table of the
5	Q That is fine. That is all I needed.	5	meta-analyses and Terry and O'Brien pooled
6	A Okay.	6	analyses, correct?
	Q Your contention today, you believe that even with	7 8	A Yes. Q For the O'Brien article you have listed only the
8	O'Brien there is still a power problem, is that correct?	9	association for patency, correct?
9	A For the	10	A Yes.
11	MS. PARFITT: Objection to the form.	11	Q You did not do that for any of the other studies,
12	It's a bit vague, Scott, when you read the	12	correct?
13	record.	13	A Correct. I highlighted that one because the
14	Do you want to try that one again?	14	patency issue to me was the standout point in
15	Q Sure. Even with the O'Brien study. The data	15	O'Brien.
16	A The four cohort study analysis in the 2020 paper?	16	So that is really just to remind myself that
17	Q Yes. The O'Brien 2020 paper which collects more	17	this is, this is something that came up. In
18	data on the cohorts, correct?	18	particular, it came up in the response to the
19	A Yes. Correct.	19	reviewer.
20	Q So that is the most recent analysis we have of the	20	Just to be clear, this first editorial is
1 21	cohort data, correct?	21	published at the time of the O'Brien paper as kind
21			of a highlight. Those one way ally invited navious
	A Yes.	22	of a highlight. These are usually invited reviews
22	A Yes. Q And O'Brien 2020?	23	by the Journal. That is the Gossett paper,
22 23			

	D 270		D 272
1	Page 270 O'Brien and then the invited commentary from a	1	Page 272 expert for the plaintiffs?
2	year or so later, really reverses her overall	2	A No, I know that Dr. Cramer published the first
3	statement that there was no association seen. And	3	study in 1992. This has pretty much been his
4	that was why I listed that to highlight that one.	4	life's work. I don't know if he was ever
5	Q So your contention is that in this Table 3 you	5	retained, I don't know for any of them if they
6	have listed O'Brien 2020 patent numbers only.	6	were retained by the plaintiffs and what date, as
7	A Uh-huh.	7	well as by the defense and what date.
	Q That is, in part, because you believe O'Brien has	8	Can you go back and forth?
8 9	reversed her conclusions from her 2020 paper, is	9	Q I'm trying to move us along. The Cramer 2016
10	that correct?	10	paper that you cited, did you see a disclosure in
11	A It was just to draw my attention to it, similar to	11	that paper?
12	Davis above that. The focus of the Davis paper	12	Do you recall that?
13	was to see if there were any differences between	13	A I don't recall.
14	African-American and White women with respect to	14	Q Regardless, with respect to the letters to the
15	risk. You know, similar to the Phung paper where	15	editor and then you said Dr. O'Brien wrote a
16	I list the endometriosis and no endometriosis.	16	response, correct?
17	It's really just to give myself and those	17	A Correct.
18	reading, you know, anything notable about the	18	Q If you look at the bottom of Page 19 of your
19	study. And that was with the O'Brien original	19	report
20	study. And that was with the OBHER original study from 2020, the original analysis, that was	20	A Yes.
21	what stood out to me there.	21	Q you have underlined and are referring to her
22	Q Is your position that from O'Brien 2020, the only	22	response, correct?
23	finding left standing after this so-called	23	A Her response, yes.
24	reversal is the patency finding?	24	Q You say, "This reverses the conclusion of the
25	MS. PARFITT: Objection to form.	25	original manuscript that stated 'there was not a
	· · · · · · · · · · · · · · · · · · ·		
	Page 271		Page 273
1	Page 271 A No. No. not at all.	1	Page 273 statistically significant association between use
1 .	A No. No, not at all.	1 2	statistically significant association between use
1 2 3	A No. No, not at all. Q The letters to the editor that you are identifying	1 2 3	statistically significant association between use of powder in the genital area and ovarian
2	A No. No, not at all. Q The letters to the editor that you are identifying are from Cramer, Harlow, and Roth, correct?	2	statistically significant association between use of powder in the genital area and ovarian cancer'."
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2 3 4 5 6 7 8 9 10	 A No. No, not at all. Q The letters to the editor that you are identifying are from Cramer, Harlow, and Roth, correct? A Yes. Those were the ones, yes. Q We talked this morning, those are all retained experts for the plaintiffs, correct? A I believe so. Q On Page 19 when you say we will use this exact language. Page 19 of your report A At what point in time? Can we revisit that? At what point in time were they 	2 3 4 5 6 7 8 9 10 11	statistically significant association between use of powder in the genital area and ovarian cancer'." That is the language from your report, is that correct? A Yes, that is. Q Are you contending that the entire manuscript is reversed? Are you contending that the only thing left standing is the patency finding? What was reversed in your mind?
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	D 074		D 276
1	Page 274 association that is not statistically significant	1	Page 276 came up in the Cramer discussion, as well as the
2	and it can still be meaningful.	2	earlier discussion, the second letter that I
3	Q Has a retraction to the O'Brien 2020 article been	3	referred to from Harlow and Rothman.
4	published?	4	Q Do you agree with O'Brien's response where she
5	A I think that the review that she wrote a year	5	still highlights that recall bias is still present
6	later, it is not an official retraction of this	6	in the retrospective studies?
7	2020 paper, but I believe it, if not completely	7	Do you agree with that portion of the
8	reverses her findings, I think it restates them in	8	response, also?
9	a manner that states that there is a positive	9	A I would have to go and see exactly what she had to
10	association between talc use and ovarian cancer.	10	say.
11	Q Has JAMA issued any sort of statement or	11	But globally do I agree with the statement
12	retraction?	12	that recall bias may be present in some case
13	A No. But it would be unusual for a journal to do	13	control studies depending on the exposure, yes.
14	so unless there were issues in terms of, like, if	14	Q Did all of the authors on the O'Brien 2020 paper
15	the data were misrepresented or out of order,	15	sign on to this letter response?
16	something along those lines. Or if they found	16	A I don't have that knowledge. We can look and see.
17	there was any kind of fabrication of data.	17	MS. PARFITT: Scott, are you talking about
18	And I'm not suggesting that whatsoever.	18	the O'Brien reply? I have a copy. Let me show it
19	Q Have you talked with any of the authors of the	19	to her.
20	O'Brien paper?	20	MR. JAMES: Okay. Go for it.
21	A No.	21	MS. PARFITT: Mine is highlighted.
22	Q With all due respect, to say that something was	22	MR. JAMES: No worries. I will just mark
23	reversed via a letter to the editor is a pretty	23	it as well.
24	remarkable claim, don't you think?	24	MS. PARFITT: Oh, no.
25	MS. PARFITT: Objection.	25	A I should have a copy. Let me see what number it
	Page 275		Page 277
1	Page 275 Counsel, is that an argument or a question?	1	Page 277 is. 76.
2	Counsel, is that an argument or a question? MR. JAMES: It's clearly a question.	1 2	is. 76.
	Counsel, is that an argument or a question? MR. JAMES: It's clearly a question. Q I mean, it seems remarkable to me.	2	is. 76.
2 3 4	Counsel, is that an argument or a question? MR. JAMES: It's clearly a question. Q I mean, it seems remarkable to me. Does it seem remarkable to you to claim that	2	is. 76. Q Here, I will just hand you a copy.
2 3 4 5	Counsel, is that an argument or a question? MR. JAMES: It's clearly a question. Q I mean, it seems remarkable to me. Does it seem remarkable to you to claim that an article or a finding has been reversed through	2 3	is. 76. Q Here, I will just hand you a copy. A I have it. Q Exhibit 23 is the O'Brien response letter. (EXHIBIT NUMBER 23 WAS MARKED FOR
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	D 270		P 200
1	Page 278 dozen studies that support recall bias, that show	1	Page 280 at it right now?
2	evidence that there is potential recall bias.		
$\frac{2}{3}$	The recall bias we believe as an author on	2	
		3	Q You also stated in your report that you give more
4	that study was introduced because of this talc	4	weight to invited reviews, something along those
5	litigation. All of those other prior studies,	5	lines, is that correct?
6	they asked those questions years, if not decades, before in different countries even and we saw the	6	MS. PARFITT: Objection to the question.
7		7	You can answer.
8	same results.	8	A Yeah. I'm not sure I said I give more weight to
9	So the empirical evidence that she states is	9	invited reviews. I do think I give less weight to
10	based on exactly one study.	10	just investigator initiated general reviews.
11	Q So you think that the medical and scientific	11	Q Okay. For the Wentzensen and O'Brien 2021
12	community believes that the only source of recall	12	article, are you aware that they stated in that
13	bias in the talc ovarian cancer studies is the	13	article that it is difficult to conclude that the
14	onset of litigation in 2014?	14	observed associations are causal?
15	MS. PARFITT: Objection. Misstates her	15	Do you recall that language?
16	testimony.	16	MS. PARFITT: Can you tell us, are you at
17	A Yeah. No, I never stated that. I stated that the	17	a specific place?
18	empirical evidence that she cites here to	18	Q I didn't see that highlighted in your report. I
19	support this empirical evidence supports that	19	was wondering if you noticed that observation?
20	recall bias is present in retrospective studies,	20	MS. PARFITT: Objection to form.
21	she just really cites one source, which is that	21	A The observation I see related to that in the
22	Schildkraut paper. That is it.	22	abstract is kind of buried in the middle that says
23	Q But she is just writing a response letter,	23	the causal factors underlying this association are
24	correct?	24	not clear.
25	A Well, sure.	25	Q Okay. So I've just handed you what I have marked
_	<u> </u>		Q Okay. 50 1 ve just nanded jou what I have marked
	Page 279		Page 281
1	Page 279 Q Would you have liked her to have done an expose	e' 1	Page 281 as Exhibit Number 24.
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	D 400		D 204
1	Page 282 scale that if it was between X and Y it's weak and	1	Page 284 When they talk about things like the lack of
2	if its between Y and Z it's moderate and so forth.	2	a good experimental model, the lack of a specific
1	Q If I hear you correctly you would not, as an	3	biomarker for powder-related carcinogenesis, and
4	epidemiologist, refer to an association as weak or	4	then the lack of where am I and the
5	modest or strong, is that correct?	5	inability to rule out confounding by indication,
	6 Did I understand you correctly?		there's a lot of other associations in the world
			of cancer more broadly that we don't have those
8			sorts of things for but that, again, we as either
1	Q Do you recognize that an association of 3.0 is	8 9	the scientific community or as, you know, the
10	stronger than an association of 1.5?	10	larger community as a whole still consider to be
	A I would say it's larger at this point. I don't	11	even without this clear causal factor that they
12	know if I would use the terminology stronger any	12	are looking at or these clear biomarkers, that
13	more.	13	point, you know, with the hundred percent
	Q If you look down below in that same paragraph	14	certainty that this is it.
15	below the 32 note, here is the language I was	15	We make policy decisions every day that are
16	referring to.	16	based on things with a lot less evidence than what
	A Okay.	17	they, the standard that they are holding to
	Q She says, "Given the inability to attribute a	18	causality here.
19	clear causal factor to the observed associations,	19	A good example of that comes, again, from
20	the lack of a good experimental model, the lack of	20	my
21	a specific biomarker for powder-related	21	Q Dr. Cote, my time is really limited. This is not
22	carcinogens, and the inability to rule out	22	really responsive to my question.
23	confounding by indication, it's difficult to	23	MS. PARFITT: I believe it is. Let her
24	conclude that the observed associations are	24	finish. She will make it efficient.
25	causal."	25	MR. JAMES: Counsel has an opportunity
	Page 283		Page 285
1	Page 283 Did I read that correctly?	1	Page 285 MS. PARFITT: I'm sure she will bring it
1 2	Did I read that correctly?	1 2	MS. PARFITT: I'm sure she will bring it
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	D 2006		D 200
1	Page 286 you deem to be analogous or relevant in some way	. 1	Page 288 meta-analyses that show consistency, right, to say
2	Specifically you cite to colorectal cancer,	2	that all of those meta-analyses are consistent,
3	right?	3	one also cannot disregard the fact that the
4	A As one. Is this the executive summary? I'm sorry		consistency is, in part, at least driven by the
5	to interrupt.	5	fact that they are all crunching the same numbers,
6	Q My question is more in general, are you aware of	1	correct?
7	any associations in the 1.25 range that are not	7	MS. PARFITT: Objection to form.
8	causal just across the world of cancer	8	A I would say overall that that is a correct
9	epidemiology?	9	statement. In the most recent meta-analyses,
10	A Sure. There could be those associations that are	10	again, they have been trying to examine the data
11	not causal. It could be an association that is	11	in different ways that provide more insight about
12	simply being driven by a confounding.	12	the exposure or about other potential factors
13	Q You didn't cite any examples of that in your	13	associated.
14	report, correct?	14	For example, the Phung study with
15	A No. Because I was, you know, trying to establish	1	endometriosis. The Woolen study looking at kind
16	whether or not there was causality. I didn't go	16	of the higher ends of exposure in the studies.
17	through and do a causal association analysis	17	They are trying to look at different ways to
18	looking at all of the different factors associated	18	classify the exposures that adds something novel.
19	with Bradford Hill for, you know, I would have	19	Q The meta-analyses that consider the same data
20	never completed this in that timeframe. This	20	build on one another, correct?
21	would have been another several hundred hours of	21	A That is correct.
22	work.	22	Q You are making that point in your report?
23	Q With respect to meta-analyses on Page 22 of your	23	A Yes.
24	report, please.	24	Q Meta-analyses also do not correct for underlying
25	A Okay. I am there.	25	problems with the data?
	Page 287		Page 289
1	Q You say below the table that the meta-analyses	1	MS. PARFITT: Objection to form.
2	were consistent in reporting a positive	2	Q I will be more precise. Meta-analyses do not
3	association between ever never talc use, correct?	3	correct for recall bias that is embedded in the
4	That is in the first sentence.	4	data, correct?
5	A Yes.	5	·
1		5	A Actually that is not an entirely correct
6	Q You say, "This is not entirely surprising, as each	6	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted
7	Q You say, "This is not entirely surprising, as each newer meta-analysis contains the studies examined	6 7	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted estimates from each of the studies. Those
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	Page 290		Page 292
1	of the studies.	1	two different institutions.
2	How we manage recall bias, one of the ways of		And, you know, some of the things that are
3	managing recall bias, again, if it exists, and	3	gold standard in terms of how you interview or
4	I'm, you know, my statement is that I do not	4	extract information from people across the board
5	consider recall bias to be a significant issue in	5	are things that I look for in all of these
6	these case control studies other than what was	6	studies. They were things that I talked about
7	shown in Schildkraut.	7	about the structured questionnaires, about
8	We do it through the methodology of study	8	training of staff.
9	collection. We do it through very standardized	9	I can say for Schildkraut, because I was
10	questionnaires. We do it through the training of	10	involved in that process, we absolutely did that
11	staff. We do it through how we design the	11	and it was never a one time thing. We went back
12	questionnaires to ask a large number of questions.	12	and trained staff continually.
13	So those are all methods that have shown that	13	Q But you have not gone back and looked at the
14	recall bias can be reduced, if not eliminated,	14	questionnaires for all of the case control
15	using some of these techniques. And so it's the	15	studies?
16	quality of the studies that are included.	16	A No, I have not looked at them all. I have looked
17	One of the advantages of case control studies	17	at the materials and methods in enough detail that
18	is that you can do a very well designed case	18	I'm confident that they did what they could to
19	control study that asks a lot more detailed	19	reduce recall bias.
20	questions about exposures.	20	Q But so has everyone else in the world of talc
21	Q Did you testify that the meta-analyses have	21	ovarian cancer literature. They have all looked
22	eliminated the recall bias in the case control	22	at the methods in the published paper.
23	studies?	23	Almost to a fault, everyone is saying that
24	A I'm not saying that they have eliminated it	24	one of the things going on in these talc ovarian
25	through meta-analysis. I'm saying that the design	25	cancer is recall bias. Right?
	Page 291		Page 293
1	Page 291 of case control studies helps reduce the amount of	1	Page 293 That is nearly uniform. It's stated in all
1 2	e	1 2	
	of case control studies helps reduce the amount of		That is nearly uniform. It's stated in all
2	of case control studies helps reduce the amount of recall bias in each individual study. The	2	That is nearly uniform. It's stated in all of the cohort studies. It's stated in all of the
2 3	of case control studies helps reduce the amount of recall bias in each individual study. The meta-analysis itself, no.	2 3 4	That is nearly uniform. It's stated in all of the cohort studies. It's stated in all of the meta-analyses, at least until Woolen.
2 3 4	of case control studies helps reduce the amount of recall bias in each individual study. The meta-analysis itself, no. Q For these case control studies, for the talc	2 3 4	That is nearly uniform. It's stated in all of the cohort studies. It's stated in all of the meta-analyses, at least until Woolen. This is not a claim that you didn't read.
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	Page 294		Page 296
1	101.	1	
2	Do we have great evidence of it for this	2	
3	particular association? No, we don't.	3	the literature with the goal of identifying
4	Q And so all of the authors of all of the papers	4	studies that captured data on frequency of use"
5	that do mention that what is going on in some of	5	I am not saying in various ways.
6	these case control studies is recall bias, all of	6	Q Let me see if I can find that quote.
7	those authors are just wrong?	7	A Okay.
8	MS. PARFITT: Objection. Misstates the	8	Q The bottom paragraph, "In 2022" in the third
9	evidence in this case.	9	sentence you say "Frequency of use was captured
10	A I absolutely did not say that. I said that that	10	various ways."
11	is always a potential for the types of studies	11	Do you see that? That is four lines down.
12	case control studies always have the potential for	12	A From the top of the paragraph?
13	recall bias.	13	
14	Just like cohort studies always have the	14	A Oh, yes. That was across the different studies.
15	potential for loss to follow-up, which means you	15	Can we back up and just go on record as
16	don't follow your participants until the end maybe	16	correcting this?
17	for reasons that are very different because they	17	Q Yes.
18	are too sick to answer and so forth.	18	A So the sentence prior it should state "Of all
19	So there are study design issues inherent to	19	identified studies, 11 were included in the
20	all of the types of study designs.	20	analysis (10 case-control, 1 cohort)."
21	Q Okay. I'm going to mark as Exhibit 25 the Woolen	21	•
22	paper.	22	A I don't know where my numbers went there.
23	(EXHIBIT NUMBER 25 WAS MARKED FOR	23	Yes, frequency of use was captured in various
24	IDENTIFICATION.)	24	ways.
25	A Yes.	25	Q Yes or no, do you have any concerns with the way
	Page 295		Page 297
1	Page 295 Q As we discussed this morning, Smith-Bindman is a	1	Page 297 frequency was captured for this study?
1 2	_	1 2	frequency was captured for this study?
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2	Q As we discussed this morning, Smith-Bindman is a paid plaintiffs' expert in this MDL talc litigation, correct?.	2	frequency was captured for this study? A I do not because they outlined clearly what their
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	Page 298		Page 300
1	Health Initiative just captured duration versus	1	In that report there was a dose response with
2	frequency.	2	increasing risk with increasing frequency of
3	Q The effect of the requirement by the authors was	3	talcum powder used with the hazard ratio of 1.4
4	to, had the effect of excluding all of the cohort	4	for daily users. Confidence interval 1.7 to 1.68
5	data except the NHS I data, correct?	5	for daily users.
6	MS. PARFITT: Objection to form.	6	I think really they are just using that as
7	A That was based on how they defined, you know, what	7	data to compare to their pooled meta-analysis.
			Q Right. My question was, do they explain why they
8	sort of exposure data that they needed. Yes, it had that effect.	8	
9		9	used the patent finding only from NHS I, but not
10	But it also, you know, excluded a large	10	any other subgroup findings for the other
11	number of case control studies as well. There	11	studies?
12	were forty-one studies excluded. From the		A No, they do not describe why they do that. Other
13	fifty-two that they started with, they went down	13	than to say that it was the highest frequency of
14	to eleven.	14	use. So, no.
15	So it excluded, you know, a large portion of	15	
16	the case control as well.	16	They didn't just do highest frequency. They did
17	Q Did you notice what the authors did when they	17	highest frequency patent only, correct?
18	cited a paper that had multiple ORs that met the	18	MS. PARFITT: Objection. Form.
19	parameters of the paper?	19	A It appears that way for, yes, for that analysis.
20	Did you critically evaluate that?	20	Q Do you know that the NCI PDQ refers to this study
21	A Yeah. I believe it was stated as how they	21	as having a highly selected subset analyses?
22	extracted the data, that they reported the highest	22	A Yes, I am aware.
23	talc use used.	23	Q Do you know that the NCI PDQ notes that because of
24	Q The highest odds ratio?	24	the structure of the Woolen analysis the results
25	A Yes.	25	should be interpreted with care?
	Page 299		Page 301
1	Q Not the highest talc use. Were you aware that	1	MS. PARFITT: Objection. Form.
2	they picked any paper that they came across	2	A Yes. I believe we covered that this morning. But
3	with multiple ORs that could have been used to	3	the PDQ is it's not all of the National Cancer
4	meet their parameters, are you aware that they	4	Institute. It is
5	picked the highest OR?	5	Q That was not my question.
6	MS. PARFITT: Objection. Misstates the	6	MS. PARFITT: Let her finish.
7	evidence in the case.	7	Q It was strictly limited to the PDQ.
8	A What I'm aware that they selected was based on how	8	A The PDQ does not represent the NCI. It is a
9	they say they extracted their data, which is when	9	
10	duplicate reports of the same subjects were	10	
11	published, the publication reporting the highest	11	Q We are running out of time. That is not my
12	talc use was selected.	12	question.
13	Q Did they restrict any of the other data sets to	13	MS. PARFITT: Let her finish the answer or
14	patent only like they did with NHS I data?	14	
15		15	talking.
16	Q Did you answer, or are you still looking?	16	
17	A I'm still looking. Thank you. I don't believe	17	selective study, which the authors acknowledge and
18	they they have a discussion of the O'Brien	18	announce in their materials and methods. They
19	findings.	19	
20	What I'm looking at right now is 2531 in kind	20	because, indeed, it's the only study of its kind.
			This is from a group of people that put out
21	of the middle of the left-hand column. They talk	21	
22	about the patent twos with respect to the odds	22	the NCI PDQ, which is not the mouthpiece of the
23	ratio. They note that when O'Brien limited women	23	entire NCI.
24	with patent fallopian tubes, the hazard was 1.13	24	
25	for ever versus never.	25	NCI PDQ when they commented on the Woolen paper

Page 302		Page 304
1 their comment was that the results of the paper	1	in dose.
2 should be interpreted with care.	2	It would be really difficult to discern that
That was their comment, correct?	3	because a lot of women, they use multiple forms.
4 MS. PARFITT: Objection to form.	4	They use it's hard to disentangle one from the
5 A Correct, that was their comment.	5	other.
6 Q That is the PDQ that Karmanos links to, ACR links	6	And the number of diaphragm users is very,
7 to, correct?	7	very low compared to the women who are using it
8 We looked at that this morning.	8	overall.
9 MS. PARFITT: Objection. Form.	9	So the biological plausibility, what I look
10 Q That is yes or no.	10	at was just general genital use of talcum powder.
11 A Yes.	11 (Q For recall bias, did recall bias I know you
12 Q Do you agree that the hospital-based case control	12	testified about the evidence from the Schildkraut
13 studies do not show statistically significant	13	study, correct?
14 associations?		A Yes. Correct.
15 A I would need to go back and look at my list of	15 (Q Does recall bias exist in the studies for reasons
16 hospital-based studies in case control.	16	other than media attention or litigation news that
17 Q I will just withdraw the question.	17	onset in 2014?
18 A Okay.	18	A Could recall bias with referring to talc use?
19 Q Do you think hospital-based case control studies		Q Correct.
20 have any advantages over population-based case		A Be impacted by other factors? Potentially, yes.
21 control studies? Yes or no?	21	But I can't think of any other factors that
22 A No.	22	might drive that sort of, that sort of
MR. JAMES: Off the record.	23	association. We do ask in these questionnaires
24 (OFF RECORD AT 5:20 P.M.)	24	about so many other exposures. Part of that is so
25 (AT THIS TIME A SHORT RECESS WAS HELD OFF	25	that we are not we never disclose to a person
Page 303		Page 305
1 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	1	participating in our studies what the exact
2 WERE HAD:)	2	hypotheses are.
3 (ON RECORD AT 5:22 P.M.)	3	We are generally interested in learning why
4 BY MR. JAMES:	4	one person develops ovarian cancer versus another.
5 Q Sitting here today do you know if the studies that	5	We ask a wide range of things to help reduce the
6 have evaluated the association between talc on	6	risk of recall bias.
7 diaphragms and sanitary napkins show a	7 (Q One of the points that you make in your report
8 statistically significant association with ovarian	8	about recall bias is that recall bias might exist
9 cancer?	9	if the exposure event is one that could be
10 A I did not look at that subset of women. I didn't	10	considered sensitive.
look at the exact usage in the genital area. So,	11	Do you recall making that comment?
12 no.		A Yes.
13 I do know some studies collected that level		Q Is it your contention that women would not find
14 of detailed data.	14	the application of talcum powder to the perineal
15 Q Do you believe that the application of talcum	15	area to be a sensitive topic?
powder on diaphragms or sanitary napkins could be		A Correct.
17 more biologically relevant for your plausibility		Q You do not think that is a sensitive
18 hypothesis than perineal application?		A I do not think that that is a sensitive issue.
19 MS. PARFITT: Objection. Form.		Q You also, in commenting on recall bias with
20 Answer if you can.	20	Cramer, you do discuss Cramer's 2016 paper in
21 A I don't think there is data to support that. When	21	regard to recall bias, correct?
22 I think about it from a biological standpoint		A Right.
23 perhaps, you know, diaphragm use, just because		Q One of the launching points in your report from
24 it's inserted internally, if it was dusted with	24	that paper is that there is no recall bias or
25 talcum powder perhaps there would be a difference	25	recall bias might be discounted or whatever

	D 200		D 200
1	Page 306 because there is no association with non-genital	1	Page 308 A Correct.
2	talc use.	2	Q Do you think strength standing alone by itself as
3	Do you recall that being one of Cramer's	3	its own factor is an important factor to consider?
4	points?	4	A I do.
5	A I'm looking at his points right here at the top of	5	Q Do you think strength in the talc ovarian cancer
6	Page 28?	6	literature is met?
7	Q Yes.	7	A I do.
8	A So this was the most recent Cramer paper.	8	Q But you will not, you do not, do you refer to the
9	Q Reason Number 2. Do you see that there?	9	1.25 association that you claim as strong?
10	A Yes. These were, this was a discussion provided	10	A So that is a single point estimate. I would say
11	by Cramer about recall bias.	11	that the strength of the associations, the
12	Q You said you agree with them?	12	positive associations as a whole are strong.
13	A Yes. I'm in agreement with that explanation as a	13	The one study that points to a 1.25 would not
14	whole.	14	be enough for me to say that single one is strong.
15	Q Understood. With just respect to point two, you	15	Again, that goes into the labeling of a
16	do, in fact, understand that there are studies	16	single point estimate on some sort of scale which
17	that report associations with non-genital use	17	I don't intend to do.
18	including Schildkraut, correct?	18	Q At the bottom of that section you say in the
19	A Correct. Yes.	19	second to last sentence, "This effect is not
20	Q Let's go to your Bradford Hill analysis.	20	diminished whatsoever by the strength of the
21	A Okay.	21	association."
22	Q That is Page 35.	22	Do you see that sentence?
23	A Yes. That is the introduction, I believe.	23	A Yes.
24	Q I'm getting close to the end and my time is almost		
25	up.	25	A Yes. So when I talk about the effect, I'm
			·
1	Page 307		Page 309
1	A All right.	1	referring to, I think, the sentence before it.
2	A All right. Q So with respect to your Bradford Hill analysis,	2	referring to, I think, the sentence before it. When I talk about just even that simple never ever
2 3	A All right.Q So with respect to your Bradford Hill analysis, you note on Page 36, "Hill noted that the first	2 3	referring to, I think, the sentence before it. When I talk about just even that simple never ever measure of perineal talc and the association with
2 3 4	 A All right. Q So with respect to your Bradford Hill analysis, you note on Page 36, "Hill noted that the first two considerations, strength of association and 	2 3 4	referring to, I think, the sentence before it. When I talk about just even that simple never ever measure of perineal talc and the association with ovarian cancer was nearly constant regardless of
2 3 4 5	A All right. Q So with respect to your Bradford Hill analysis, you note on Page 36, "Hill noted that the first two considerations, strength of association and consistency could be considered together."	2 3 4 5	referring to, I think, the sentence before it. When I talk about just even that simple never ever measure of perineal talc and the association with ovarian cancer was nearly constant regardless of study population, decade of study enrollment, and
2 3 4 5 6	A All right. Q So with respect to your Bradford Hill analysis, you note on Page 36, "Hill noted that the first two considerations, strength of association and consistency could be considered together." Do you see that sentence?	2 3 4 5 6	referring to, I think, the sentence before it. When I talk about just even that simple never ever measure of perineal talc and the association with ovarian cancer was nearly constant regardless of study population, decade of study enrollment, and race and ethnicity.
2 3 4 5 6 7	 A All right. Q So with respect to your Bradford Hill analysis, you note on Page 36, "Hill noted that the first two considerations, strength of association and consistency could be considered together." Do you see that sentence? A Yes, I do. 	2 3 4 5 6 7	referring to, I think, the sentence before it. When I talk about just even that simple never ever measure of perineal talc and the association with ovarian cancer was nearly constant regardless of study population, decade of study enrollment, and race and ethnicity. So then I go on to say, "This effect is not
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	Page 310	Page 312
1	A Yes.	1 necessarily a strong factor because we are
2	Q this is in discussing Consistency. That starts	2 starting to learn that, you know, as we learn more
3	on Page 8 and it rolls to Page 9.	3 about biology, specificity is not as strong of an
4	He says, "I would myself put a good deal of	4 element.
5	weight upon similar results reached in quite	5 You know, certain things, even like biologic
6	different ways, e.g. prospectively and	6 plausibility, you need to have some understanding
7	retrospectively."	7 of the basic biological underpinnings. Sometimes
8	Do you see that?	8 our basic science just has not caught up yet.
9	A Yes.	9 MR. JAMES: I'm saving myself four
10	Q He is referring to consistency among study design	,10 minutes.
11	correct?	MS. PARFITT: We will take a brief break.
12	A Yes.	12 (OFF RECORD AT 5:40 P.M.)
13	Q Do you agree with that, that one component of	13 (AT THIS TIME A SHORT RECESS WAS HELD OFF
14	consistency is consistency among or between study	14 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS
15	designs?	15 WERE HAD:)
16	A Not necessarily because as we have been stating	16 MR. JAMES: For the record correction,
17	all day, there are strengths and limitations to	17 Exhibit 24 is the O'Brien review article.
18	each of these study designs.	18 Exhibit 25 is Woolen. Exhibit 26 is
19	I would not say a prospective study to	19 Bradford Hill.
20	examine the association between an exposure that	20 ON RECORD AT 5:50 P.M.)
21	potentially happens early in life and a disease of	21 EXAMINATION
22	very late onset that is relatively rare is an	22 QUESTIONS BY MS. PARFITT:
23	ideal study for a prospective study. That is	23 Q Dr. Cote, I just have a few questions for you.
24	better suited to a retrospective study.	What I would like you to do is reference now
25	With that said, I don't think the cohort	25 Pages 13 and 14 of your report and the section
	·	25 Tages 15 and 11 of your report and the section
	Page 311	Page 313
1	evidence in this particular analysis that I have	Page 313 1 entitled Biologic Mechanisms Linking Perineal Talc
2	evidence in this particular analysis that I have laid out here today differs from the case control	Page 313 1 entitled Biologic Mechanisms Linking Perineal Talc 2 and Ovarian Cancer.
2 3	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall	Page 313 1 entitled Biologic Mechanisms Linking Perineal Talc 2 and Ovarian Cancer. 3 Are you there?
2 3 4	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists.	Page 313 1 entitled Biologic Mechanisms Linking Perineal Talc 2 and Ovarian Cancer. 3 Are you there? 4 A Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists. Q Last question, on Page 6 of your report I will try to reserve three minutes. Please go to Page 6 of your report. A I'm there. Q Throughout your Bradford Hill analysis you conclude each section, or most of the sections, with commentary. For example with strength you say, I give strong weight to strength. In some instances you say, I give, you know, low weight or something like that. A Yes. Q My question is for each of the factors when you provide that description are you saying that you find the evidence strongly supports that factor, or are you saying methodologically you find that factor to be important in a causal analysis? A I find it the latter. From a methodology	Page 313 1 entitled Biologic Mechanisms Linking Perineal Talc 2 and Ovarian Cancer. 3 Are you there? 4 A Yes. 5 Q You were asked by counsel several questions with 6 regard to articles that you reviewed for purposes 7 of your opinion in the areas of invitro studies, 8 invivo studies, and cellular studies. 9 Do you remember that many, many hours ago? 10 A Yes, I do. 11 Q All right. What is the significance, if any, of 12 your review of these invitro, invivo, and cellular 13 studies to your causation opinion? 14 A It's really right there in the title. It is the 15 biologic mechanism piece of this trying to show 16 that, yes, indeed, something kind of at the entry 17 of the female genital tract can move up that 18 tract. 19 Things that there's that scientific word 20 "things" again particles, materials, foreign 21 objects, including something like talc, can then move into various tissues in the female

Page 314		Page 316
And by nature of the fact that talc does not	1	A Talc without asbestiform fibers.
disintegrate, that it can eventually produce	2	Q Okay. Was the talc that was reviewed in 2010 talc
* * *	3	that contained asbestos?
	4	MR. JAMES: Objection to the form.
	5	A No. That was what was reviewed later. It's
	6	earlier in the report. I should have done this
	7	opposite.
	8	That is what was reviewed in 2012. So 2010
-		was talc without asbestos.
		Q Dr. Cote, did any of the questions raised by
		counsel for Johnson & Johnson today throughout the
		seven hours of questioning change the opinions
		which you will be sharing with the jury and the
		court in this case that talcum powder use in the
		genital area can cause ovarian cancer?
		MR. JAMES: Objection to form, please.
		A No. There is nothing we have discussed today that
		changes the overall opinions contained in my
		expert report.
		• •
		Q Okay.
		MS. PARFITT: That is all that I have.
		Thank you.
		EXAMINATION OUTSTONG DV MP. LAMES
		QUESTIONS BY MR. JAMES:
MR. JAMES: Objection to form.	25	Q One follow-up, I think, in my four minutes.
Page 315		Page 317
A Okay. So it goes back also to the biological		Did you look at any studies dealing with talc
mechanism. It adds in the IARC reports and I'm		minors or millers?
		Have you ever looked at any of those studies?
recent monograph was the one that focused on		A I think a lot of that information was included in
Group 1 carcinogens that included talc that may		both the IARC reports as well as Health Canada.
form fibers that are asbestiform in habit and that		did not focus at all on occupational studies with
type of talc referred to as fibrous talc had been		respect to ovarian cancer.
classified by IARC as a Class 1 human carcinogen.		Q Okay.
That was the Group 1 analysis in 2012. In	_	MR. JAMES: That will be it. Thank you
2010 it was the overall conclusion of the		for your time. A No. Thank you.
report was that use of, perineal use of talc-based	l .	MS. PARFITT: We will read and execute
powder is possibly carcinogenic to humans. That		
was the Group 2B.		signature. Thank you. (OFF RECORD AT 5:57 P.M.)
Again, it's just more biologic plausibility.		(OIT RECORD AT 3.37 F.MI.)
Q The 2010 monograph, what was the agent that was		
reviewed?		AND FURTHER DEPONENT SAITH NOT
Was it talcum powder?		AND I ONTHER DEFONENT SAITH NOT
Was it talcum powder with asbestos?	19	
Was it talcum powder without asbestos?	19	
•		MICHELE L. COTE, PH.D., M.P.H.
What was the agent reviewed by the working	20	1711 CILLED D. COID, I II.D., 171.1 .II.
What was the agent reviewed by the working group back in 2010?	20 21	, ,
group back in 2010?	21	
group back in 2010? MR. JAMES: Objection to form, please.	21 22	
group back in 2010?	21	
	And by nature of the fact that talc does not disintegrate, that it can eventually produce chronic inflammatory response. We see that with, you know, bringing macrophages and those sorts of things into the tissue. And that immune response starts a cascade of other sorts of cancer-related hallmarks of cancer and things that we know cancer cells do, like proliferation. We know they try to avoid the immune system. There is less apoptosis. So those sorts of things. So it was really trying to build this biological mechanism as part of the Bradford Hill analysis as to how could talc be associated with ovarian cancer? What is the underlying biological mechanism? Q You were asked several questions, again, hours ago with regard to issues pertaining to asbestos and it's association with ovarian cancer and also fibrous talc and it's association with ovarian cancer. What, if anything, significance based upon your research and your opinions today does asbestos and fibrous talc, how does that add, if it does, to your causation opinions in this case? MR. JAMES: Objection to form. Page 315 A Okay. So it goes back also to the biological mechanism. It adds in the IARC reports — and I'm looking at my statements right now. The most recent monograph was the one that focused on Group 1 carcinogens that included talc that may form fibers that are asbestiform in habit and that type of talc referred to as fibrous talc had been classified by IARC as a Class 1 human carcinogen. That was the Group 1 analysis in 2012. In 2010 it was — the overall conclusion of the report was that use of, perineal use of talc-based powder is possibly carcinogenic to humans. That was the Group 2B. Again, it's just more biologic plausibility. Q The 2010 monograph, what was the agent that was reviewed? Was it talcum powder?	And by nature of the fact that talc does not disintegrate, that it can eventually produce chronic inflammatory response. We see that with, you know, bringing macrophages and those sorts of things into the tissue. And that immune response starts a cascade of other sorts of cancer-related hallmarks of cancer and things that we know cancer cells do, like proliferation. We know they try to avoid the immune system. There is less apoptosis. So those sorts of things. So it was really trying to build this biological mechanism as part of the Bradford Hill analysis as to how could talc be associated with ovarian cancer? What is the underlying biological mechanism? Q You were asked several questions, again, hours ago with regard to issues pertaining to asbestos and it's association with ovarian cancer and also fibrous talc and it's association with ovarian cancer. What, if anything, significance based upon your research and your opinions today does asbestos and fibrous talc, how does that add, if it does, to your causation opinions in this case? MR. JAMES: Objection to form. Page 315 A Okay. So it goes back also to the biological mechanism. It adds in the IARC reports — and I'm looking at my statements right now. The most recent monograph was the one that focused on Group 1 carcinogens that included talc that may form fibers that are asbestiform in habit and that type of talc referred to as fibrous talc had been classified by IARC as a Class 1 human carcinogen. That was the Group 1 analysis in 2012. In 2010 it was — the overall conclusion of the report was that use of, perineal use of talc-based powder is possibly carcinogenic to humans. That was the Group 2B. Again, it's just more biologic plausibility. Q The 2010 monograph, what was the agent that was reviewed? Was it talcum powder?

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 1 STATE OF INDIANA )
              ) SS:
 2 COUNTY OF BOONE )
 3
 4
       I, Wendi Kramer Sulkoske, Notary Public in and
 5
      for said county and state, do hereby certify that
      MICHELE L. COTE, PH.D., M.P.H. the deponent herein
 6
 7
      was by me first duly sworn to tell the truth in
 8
      the aforementioned matter;
 9
          That the foregoing deposition was taken on
10
      behalf of the Defendants at the time and place
11
      heretofore mentioned with counsel present as
12
13
           That the deposition was taken down in
14
      Stenograph notes, reduced to typewriting under
15
      my direction, is a true record of the testimony
16
      given by said deponent, and was thereafter
17
      presented to the deponent for signature.
18
          That this certificate does not purport to
19
      acknowledge or verify the signature hereto of
20
      the deponent.
21
           I do further certify that I am a
22
      disinterested person in this cause of action;
23
      that I am not a relative or attorney of any of
24
      the parties or otherwise interested in the event
25
      of this action, and am not in the employ of the
                                                         Page 319
 1
       attorneys for the respective parties.
 2
          IN WITNESS WHEREOF, I have hereunto set my
 3
       hand and affixed my notarial seal this 1st
 4
       day of April, 2024.
 5
 6
            <%1316,Signature%>
 7
          Wendi Kramer Sulkoske, Notary Public
 8
10 Commission Number NP0661030
11 My commission expires December 1, 2030.
   My County of residence is Boone.
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- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
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